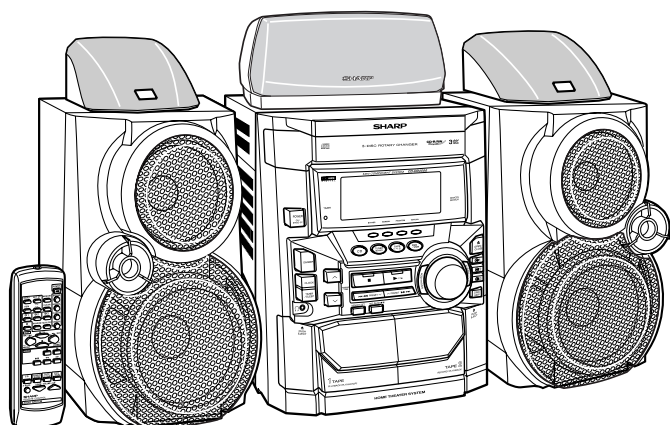


# SHARP SERVICE MANUAL

No. S7144CDDD4500



## MINI COMPONENT SYSTEM

## MODEL CD-DD4500

CD-DD4500 Mini Component System consisting of CD-DD4500 (main unit), CP-DD4500 (Front), center (GBOXS0064AWM1), surround (R) (GBOXS2008AWM1) and surround (L) (GBOXS4008AWM1) speaker system.



- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.



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FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

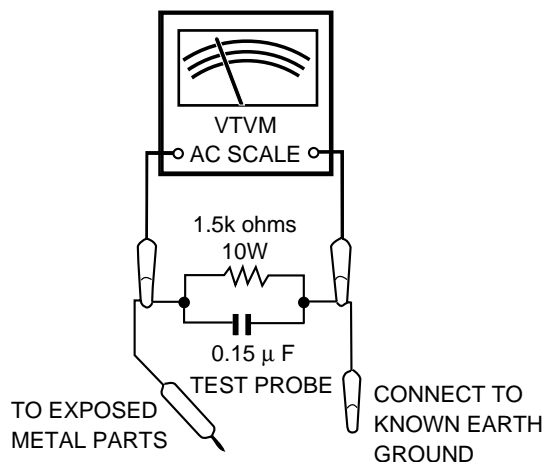
## IMPORTANT SERVICE NOTES (FOR U.S.A. ONLY)

### BEFORE RETURNING THE AUDIO PRODUCT

(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
  - \* Plug the AC line cord directly into a 120 volt AC outlet.
  - \* Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 $\mu$ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.
  - \* Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).
  - \* Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.



All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.

## SPECIFICATIONS

### CD-DD4500

#### General

Power source	AC 120 V, 60 Hz
Power consumption	230 W
Dimensions	Width: 10-11/16" (270 mm) Height: 13" (330 mm) Depth: 14-11/16" (372 mm)
Weight	19.4 lbs (8.8 kg)

#### Amplifier

Output power	Front speakers (Main) : 30 W minimum RMS per channel into 8 ohms. Front speakers (Subwoofer) : 40 W per channel : 6 ohms (100 Hz, 10 % T.H.D.) Center speaker : 30W : 6 ohms (1 kHz, 10 % T.H.D.) Surround speakers : 20W per channel : 8 ohms (1 kHz, 10 % T.H.D.)
Output terminals	Front speakers (Main) : 8 ohms Front speakers (Subwoofer) : 6 ohms Center speaker : 6 ohms Surround speakers : 8 ohms Subwoofer(Pre-out) : 10 kohms Headphones : 16-50 ohms (recommended; 32 ohms)
Input terminals	DVD (Digital) : Optical VCR/Auxiliary : 500 mV/47 kohms

#### CD player

Type	3-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	100 dB (1 kHz)

#### Tuner

Frequency range	FM: 87.5-108 MHz AM: 530-1,720 kHz
-----------------	---------------------------------------

Specifications for this model are subject to change without prior notice.

#### Cassette deck

Frequency response	50 -14,000 Hz (Normal tape)
Signal/noise ratio	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter	0.25 % (WRMS)

### CP-DD4500

Type	3 - way, 5-1/8" (130 mm) subwoofer, 4" (100 mm) woofer and 2" (50 mm) tweeter
Maximum input power	Subwoofer: 80 W Main: 60 W
Impedance	Subwoofer: 6 ohms/ Main: 8 ohms
Dimensions	Width: 8- 5/8" (220 mm) Height: 13" (330 mm) Depth: 9- 5/8" (245 mm)
Weight	9.0 lbs. (4.1 kg)/each

### GBOXS0064AWM1

Type	Full range, 4" (100 mm)
Maximum input power	60 W
Impedance	6 ohms
Dimensions	Width: 10- 1/4" (260 mm) Height: 5- 5/8" (142 mm) Depth: 6- 11/16" (170 mm)
Weight	2.2 lbs. (1.0 kg)/each

### GBOXS2008AWM1

### GBOXS4008AWM1

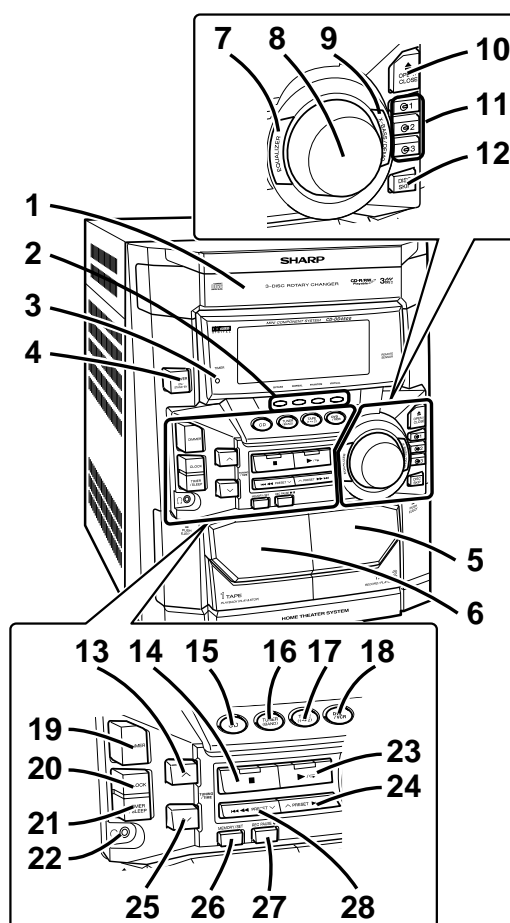
Type	Full range, 4" (100 mm)
Maximum input power	40 W
Impedance	8 ohms
Dimensions	Width: 7- 7/8" (200 mm) Height: 6- 3/4" (172 mm) Depth: 3- 3/4" (95 mm)
Weight	1.3 lbs. (0.6 kg)/each

## NAMES OF PARTS

### CD-DD4500

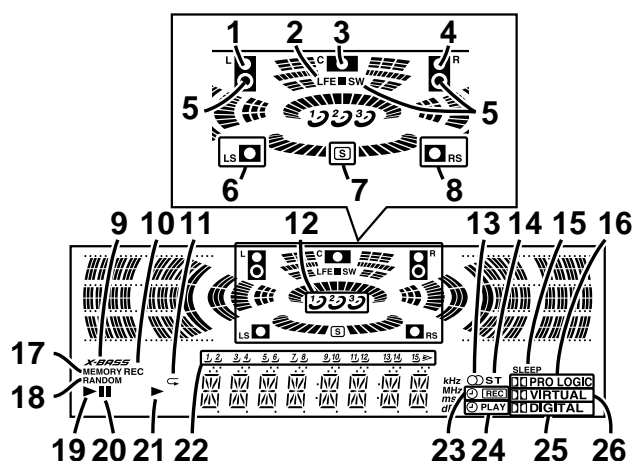
#### ■ Front panel

1. Disc Tray
2. Surround Effect Buttons
3. Timer Set Indicator
4. Power On/Stand-by Button
5. Tape 2 Cassette Compartment
6. Tape 1 Cassette Compartment
7. Equalizer Mode Select Button
8. Volume Control
9. Extra Bass/Demo Mode Button
10. Disc Tray Open/Close Button
11. Disc Number Select Buttons
12. Disc Skip Button
13. Tuning and Time Up Button
14. CD or Tape Stop Button (with Indicator)
15. CD Button
16. Tuner (Band) Button
17. Tape (1 ~ 2) Button
18. DVD/VCR Button
19. Dimmer Button
20. Clock Button
21. Timer/Sleep Button
22. Headphone Jack
23. CD Play or Repeat, Tape Play Button (with Indicator)
24. CD Fast Forward, Tape 2 Fast Forward or Tuner Preset Up Button
25. Tuning and Time Down Button
26. Memory/Set Button
27. Tape 2 Record Pause Button
28. CD Fast Reverse, Tape 2 Rewind or Tuner Preset Down Button



#### ■ Display

1. Left Front Speaker Indicator
2. Low Frequency Effect Indicator
3. Center Speaker Indicator
4. Right Front Speaker Indicator
5. Subwoofer Indicator
6. Left Surround Speaker Indicator
7. Surround Indicator
8. Right Surround Speaker Indicator
9. Extra Bass Indicator
10. Tape 2 Record Indicator
11. CD Repeat Indicator
12. Disc Number Indicators
13. FM Stereo Receiving Indicator
14. FM Stereo Mode Indicator
15. Sleep Indicator
16. Dolby Pro Logic Indicator
17. Memory Indicator
18. CD Random Play Indicator
19. CD Play Indicator
20. CD Pause Indicator
21. Tape Play Indicator
22. CD Music Schedule Indicators
23. Timer Recording Indicator
24. Timer Play Indicator
25. Dolby Digital Indicator
26. Dolby Virtual Indicator

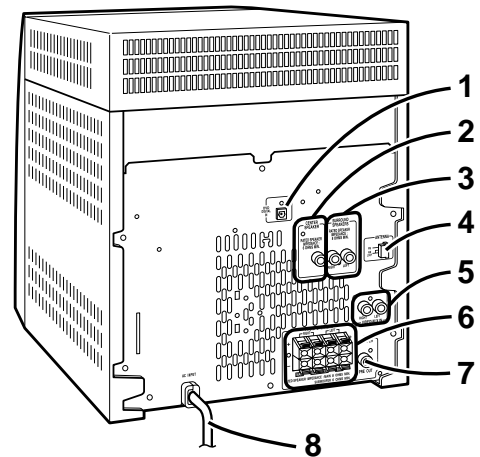


# CD-DD4500

## CD-DD4500

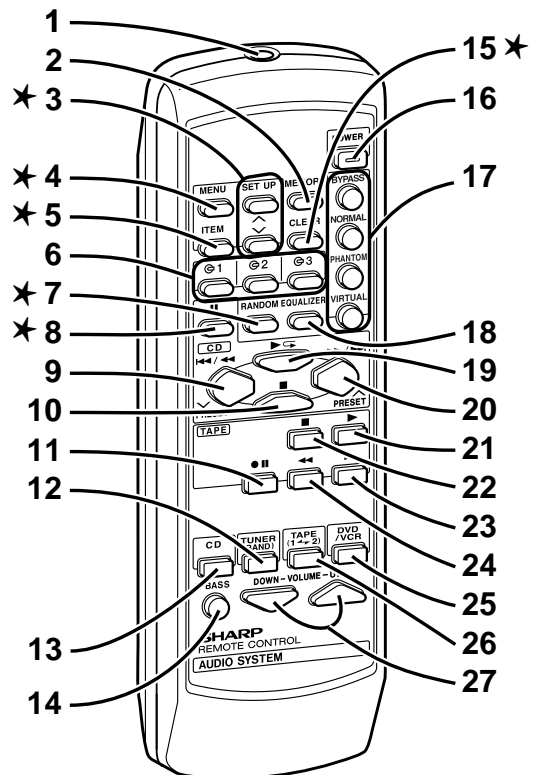
### ■ Rear panel

1. DVD Digital Input Jack
2. Center Speaker Jacks
3. Surround Speaker Jacks
4. FM/AM Loop Antenna Jack
5. Video/Auxiliary (Audio Signal) Input Jacks
6. Speaker Terminals
7. Subwoofer Pre Output Jack
8. AC Power Cord



### ■ Remote control

1. Remote Control Transmitter
2. CD Memory Button
3. Set Up Menu Select Buttons
4. Menu Button
5. Item Button
6. Disc Number Select Buttons
7. CD Random Button
8. CD Pause Button
9. CD Fast Reverse/Preset Down Button
10. CD Stop Button
11. Tape 2 Record Pause Button
12. Tuner (Band) Button
13. CD Button
14. Extra Bass Button
15. CD Clear Button
16. Power Button
17. Surround Effect Buttons
18. Equalizer Mode Select Button
19. CD Play or Repeat Button
20. CD Fast Forward/Preset Up Button
21. Tape 1/Tape 2 Play Button
22. Tape 1/Tape 2 Stop Button
23. Tape 2 Fast Forward Button
24. Tape 2 Rewind Button
25. DVD/VCR Button
26. Tape (1 ~ 2) Button
27. Volume Up or Down Buttons



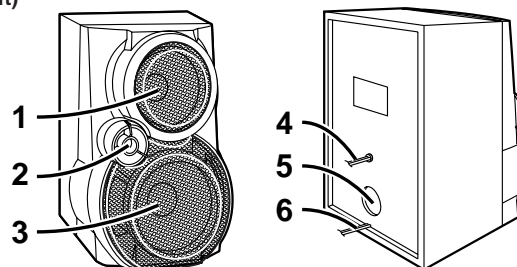
Buttons with "★" mark in the illustration can be operated with the remote control only.  
Other buttons can be operated on the main unit and the remote control.

## ■ Front Speaker

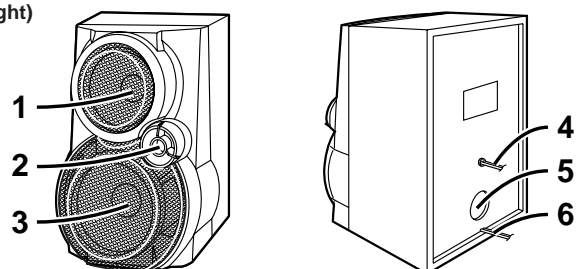
CP-DD4500

1. Woofer
2. Tweeter
3. Subwoofer
4. Speaker Wire for SUBWOOFER Terminals
5. Bass Reflex Duct
6. Speaker Wire for MAIN Terminals

Front speaker  
(left)



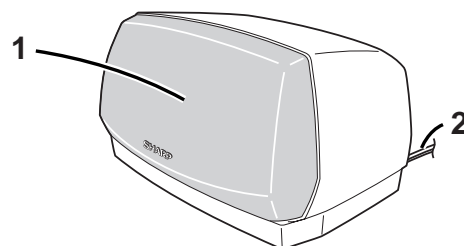
Front speaker  
(right)



## ■ Center Speaker

GBOXS0064AWM1

1. Full-Range Speaker
2. Speaker Wire

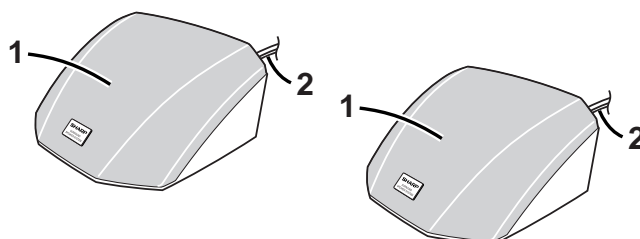


## ■ Surround Speaker

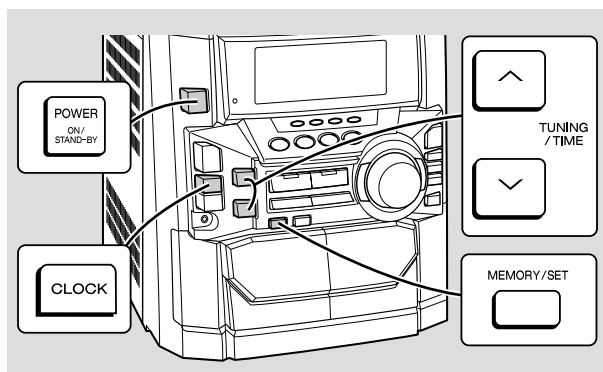
GBOXS2008AWM1

GBOXS4008AWM1

1. Full-Range Speaker
2. Speaker Wire



## Setting the Clock



In this example, the clock is set for the 12-hour (AM 12:00) display.

- 1 Press the **POWER** button to turn the power on.
- 2 Press the **CLOCK** button and within 5 seconds, press the **MEMORY/SET** button.

→

- 3 Press the **TUNING/TIME** (∨ or ∧) button to select the 12-hour or 24-hour display and then press the **MEMORY/SET** button.

→

"AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)  
 "AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)  
 "0:00" → The 24-hour display will appear. (0:00 - 23:59)

Note that this can only be set when the unit is first installed or it has been reset.

- 4 Press the **TUNING/TIME** (∨ or ∧) button to adjust the hour and then press the **MEMORY/SET** button.

→

- Press the **TUNING/TIME** (∨ or ∧) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

- 5 Press the **TUNING/TIME** (∨ or ∧) button to adjust the minutes and then press the **MEMORY/SET** button.

→

- Press the **TUNING/TIME** (∨ or ∧) button once to advance the time by 1 minute. Hold it down to change the time in 5-minute intervals.
- The hour will not advance even if minutes advance from "59" to "00".
- The clock begins counting from "0" seconds. (Seconds are not displayed.) The time display will disappear after a few seconds.

### To confirm the time display:

Press the **CLOCK** button.

The time display will appear for about 5 seconds.

### Note:

The "CLOCK" or time will flash at the push of the **CLOCK** button when the AC power supply is restored after a power failure or after unplugging the unit. Readjust the clock as follows.

### To readjust the clock:

Perform "Setting the Clock" from the beginning.

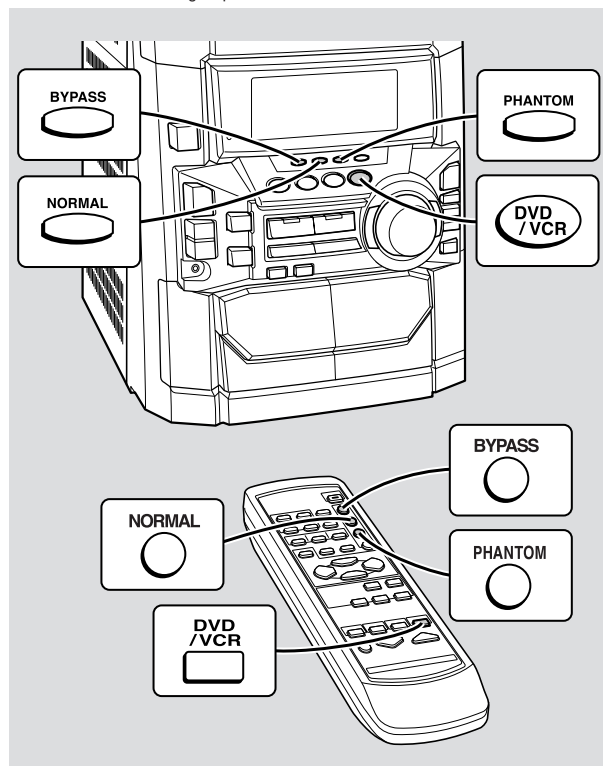
If the time display is flashing, step 3 (for selecting the 12-hour or 24-hour display) will be skipped.

### To change the 12-hour or 24-hour display:

1. Clear all the programmed contents.  
[Refer to "Clearing all the memory (reset)".]
2. Perform "Setting the Clock" from the beginning.

## Dolby Digital

When you connect this unit to a DVD player which is playing a disc with the **DOLBY DIGITAL** trademark, you can enjoy realistic, powerful sound by playing back the recorded signal through 5 speakers with the sound coming from the front left, front right, center, surround left and surround right speakers.



### ■ To listen to a disc using the Dolby Digital mode

- 1 Connect a DVD player.
- 2 Press the **DVD/VCR** button to select "DVD".
- 3 Start the DVD player.

### Note:

When in the Dolby Digital surround mode, the equalizer will be set to FLAT.

### ■ Type of Dolby digital signal

There are different types of Dolby digital signals. The type of Dolby digital signal being input into this unit can be checked in the display.

	Normal PCM playback
	Center only (monaural)
	Front (L, R) (When the surround mode is set to Normal or Phantom, sound will also be heard from the surround speakers.)
	Front (L, R) + surround (monaural)
	Front (L, R) + surround (L, R)
	Front (L, R) + center
	Front (L, R) + center + surround (monaural)
	Front (L, R) + center + surround (L, R)

If a low frequency sound effect (Low Frequency Effect) contains a Dolby digital signal, "LFE" will light in the display.

When this "LFE" is lit, low frequency signals will be output from the subwoofer.



# Troubleshooting Chart

Many potential "problems" can be resolved by the owner without calling a service technician. If something is wrong with this product, check the following before calling your authorized SHARP dealer or service center.

## General

Symptom	Possible cause
● The clock is not on time.	● Did a power failure occur? Reset the clock.
● When a button is pressed, the unit does not respond.	● Set this unit to the power stand-by mode and then turn it back on. ● If the unit still malfunctions, reset it.
● No sound is heard.	● Is the volume level set to "0"? ● Are the headphones connected? ● Are the speaker wires disconnected?
● The balance between the left and right channels is bad.	● Are the front and surround speakers connected to the correct left and right channels? ● If an external unit is connected, are the left and right channels connected properly?
● Hum or excessive noise.	● Is the speaker cord plugged in correctly? ● Does the speaker cord run past other electronic equipment? ● Are the plugs or terminals dirty?
● No sound is heard, or the sound is too low, from the center or surround speakers.	● Is the "SP SIZE" item set to "NO" in the "SET UP" operation? ● Is the volume too low?
● The TIMER indicator is flashing.	● Is the speaker wire shorted? ● Was the unit used at high volume for many hours?

## CD player

Symptom	Possible cause
● Playback does not start. ● Playback stops in the middle or is not performed properly.	● Is the disc loaded upside down? ● Does the disc satisfy the standards? ● Is the disc distorted or scratched?
● Playback sounds are skipped, or stopped in the middle of a track.	● Is the unit located near excessive vibrations? ● Is the disc very dirty? ● Has condensation formed inside the unit?

## Tuner

Symptom	Possible cause
● Radio makes unusual noise consecutively.	● Is the unit placed near the TV or computer? ● Is the FM/AM loop antenna placed properly? Move the AC power cord away from the antenna if located near.

## Cassette deck

Symptom	Possible cause
● Cannot record.	● Is the erase-protection tab removed?
● Cannot record tracks with proper sound quality. ● Cannot erase completely.	● Is it a normal tape? ● (You cannot record on a metal or CrO <sub>2</sub> tape.)
● Sound skipping.	● Is there any slack? ● Is the tape stretched?
● Cannot hear treble. ● Sound fluctuation.	● Are the capstans, pinch rollers, or heads dirty?
● Cannot remove the tape.	● If a power failure occurs during playback, the heads remain engaged with the tape. Do not open the compartment forcibly. Wait until electricity resumes.

## Remote control

Symptom	Possible cause
● The remote control does not operate.	● Is the AC power cord of the unit plugged in? ● Is the battery polarity respected? ● Are the batteries dead? ● Is the distance or angle incorrect? ● Does the remote control sensor receive strong light?

## Connecting DVD player

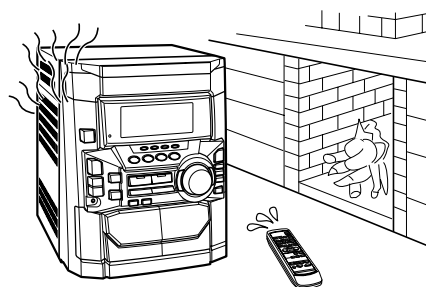
Symptom	Possible cause
● Although a DVD player is connected, no sound is heard.	● Is the power to the DVD player connected properly? ● Is a digital signal being output from the DVD player? ● Is "DVD NO" being displayed? ● Does the type of DVD digital signal appear in the display? ● Since "DVD---" is not output from the Dolby digital source, it cannot be decoded. ● Is a Dolby digital 2/0 (monaural) signal being played with the surround mode set to NORMAL and without a center speaker connected?

## Condensation

Sudden temperature changes, storage or operation in an extremely humid environment may cause condensation inside the cabinet (CD pickup, tape heads, etc.) or on the transmitter on the remote control.

Condensation can cause the unit to malfunction.

If this happens, leave the power on with no disc (or cassette) in the unit until normal playback is possible (about 1 hour). Wipe off any condensation on the transmitter with a soft cloth before operating the unit.



## If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction.

If such a problem occurs, do the following:

1. Set the unit to the stand-by mode and turn the power on again.
2. If the unit is not restored in the previous operation, unplug and plug in the unit, and then turn the power on.

**Note:**

If neither operation above restores the unit, clear all the memory by resetting it.

## Troubleshooting Chart

### ■ Clearing all the memory (reset)

1. Press the **POWER** button to enter the power stand-by mode.
2. While pressing down the **▶/◀** button and **X-BASS/DEMO** button, press the **POWER** button until "CLEAR AL" appears.

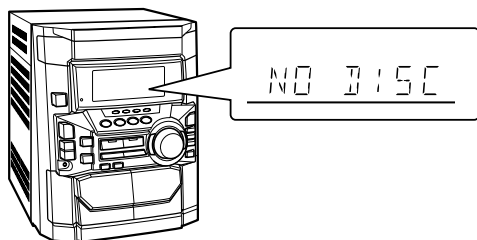


#### Caution:

This operation will erase all data stored in memory including clock, timer settings, tuner preset, CD program, and other set-up details.

### ■ Before transporting the unit

1. Press the **POWER** button to turn the power on.
2. Press the **CD** button.
3. Press the **▲ OPEN/CLOSE** button to open the disc tray.  
Remove all CDs inserted the unit.
4. Press the **▲ OPEN/CLOSE** button to close the disc tray.  
Make sure that "NO DISC" is displayed.
5. Press the **POWER** button to enter the stand-by mode, and then unplug the AC power cord from the AC outlet.



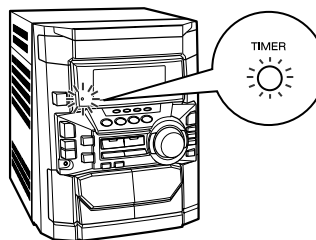
### ■ When TIMER indicator is flashing

The unit will be overheated when TIMER indicator is flashing.

Due to a problem in the speaker circuit, the unit will enter the stand-by mode automatically.

In this case, take the following corrective actions.

1. Unplug the AC power plug from the AC outlet.
2. Make sure that the unit vent is not blocked.
3. Make sure that the speaker wires have been correctly connected to the speaker terminals.
4. After checking items 2 and 3 above, wait for 2 or 3 hours before trying to use the unit.
5. Reconnect the AC power cord.



#### Note:

If the TIMER indicator flashes again during use, please unplug the AC power plug, and contact a SHARP authorized service center.

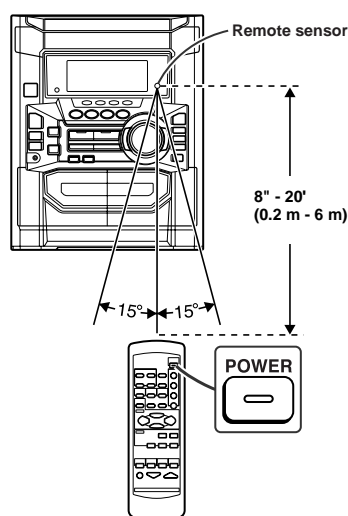
## Remote Control

### ■ Test of the remote control

Face the remote control directly to the remote sensor on the unit.

The remote control can be used within the range shown below:

Press the **POWER** button. Does the power turn on? Now, you can enjoy the music.



#### Notes concerning use:

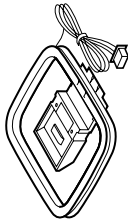
- Replace the batteries if the operating distance is reduced or if the operation becomes erratic.
- Periodically clean the transmitter on the remote control and the sensor on the unit with a soft cloth.
- Exposing the sensor on the unit to strong light may interfere with operation. Change the lighting or the direction of the unit.
- Keep the remote control away from moisture, heat, shock, and vibrations.



## 1 Accessories Accesorios



Remote control × 1  
Controlador remoto × 1

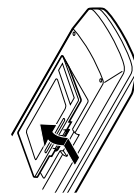


FM/AM loop antenna × 1  
Antena de cuadro de FM/AM × 1

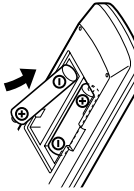
## 2 Battery Installation of the Remote Control Instalación de las pilas del controlador remoto

Use 2 "AA" size batteries (UM/SUM-3, R6, HP-7 or similar).  
Use dos pilas del tamaño "AA" (UM/SUM-3, R6, HP-7 o equivalentes).

### 1 Remove the battery cover. Extraiga la cubierta de las pilas.

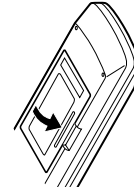


### 2 Insert the batteries as shown. Inserte las pilas como se muestra.

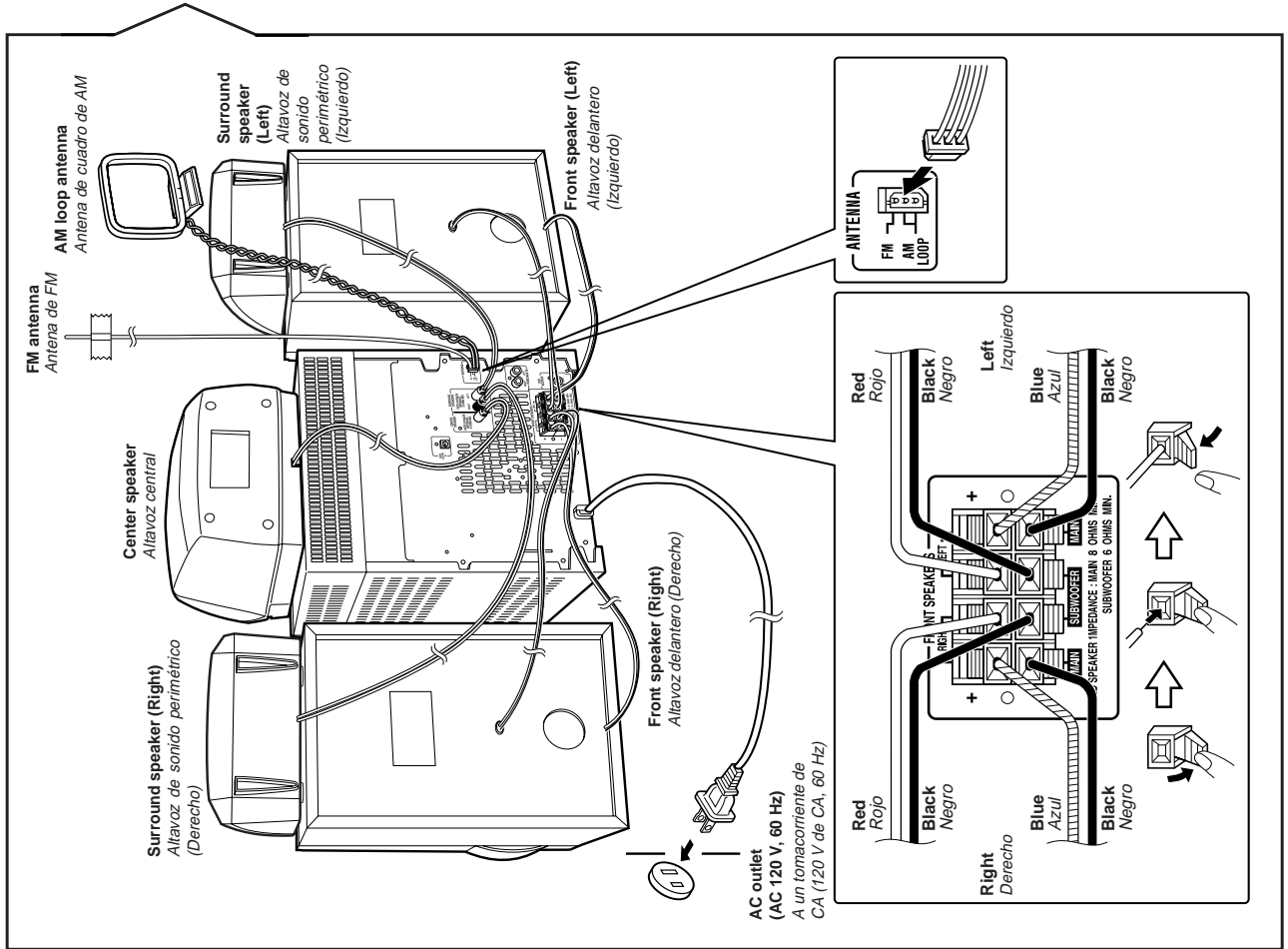


Batteries are not included.  
Las pilas no están incluidas.

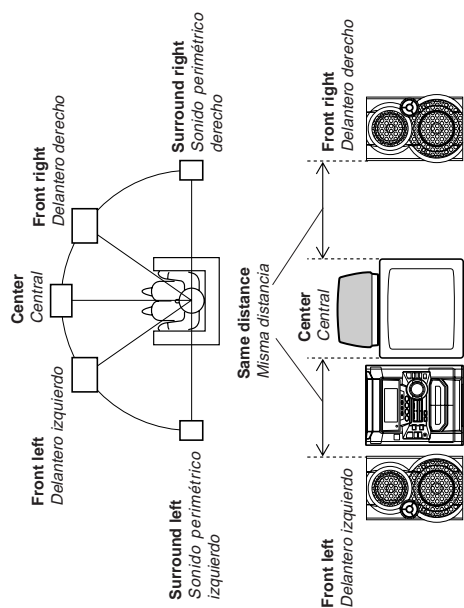
### 3 Replace the cover. Vuelva a colocar la cubierta.



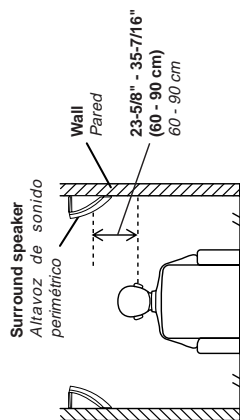
## 3 System Connections Conexiones del sistema



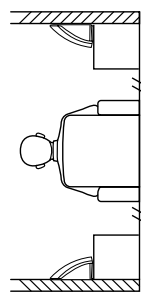
## 5 Placing the speakers Situación de los altavoces



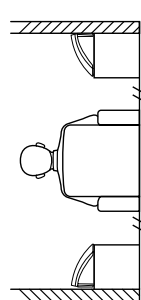
**Example: When installed on the wall**  
Ejemplo: Cuando se instalan en la pared



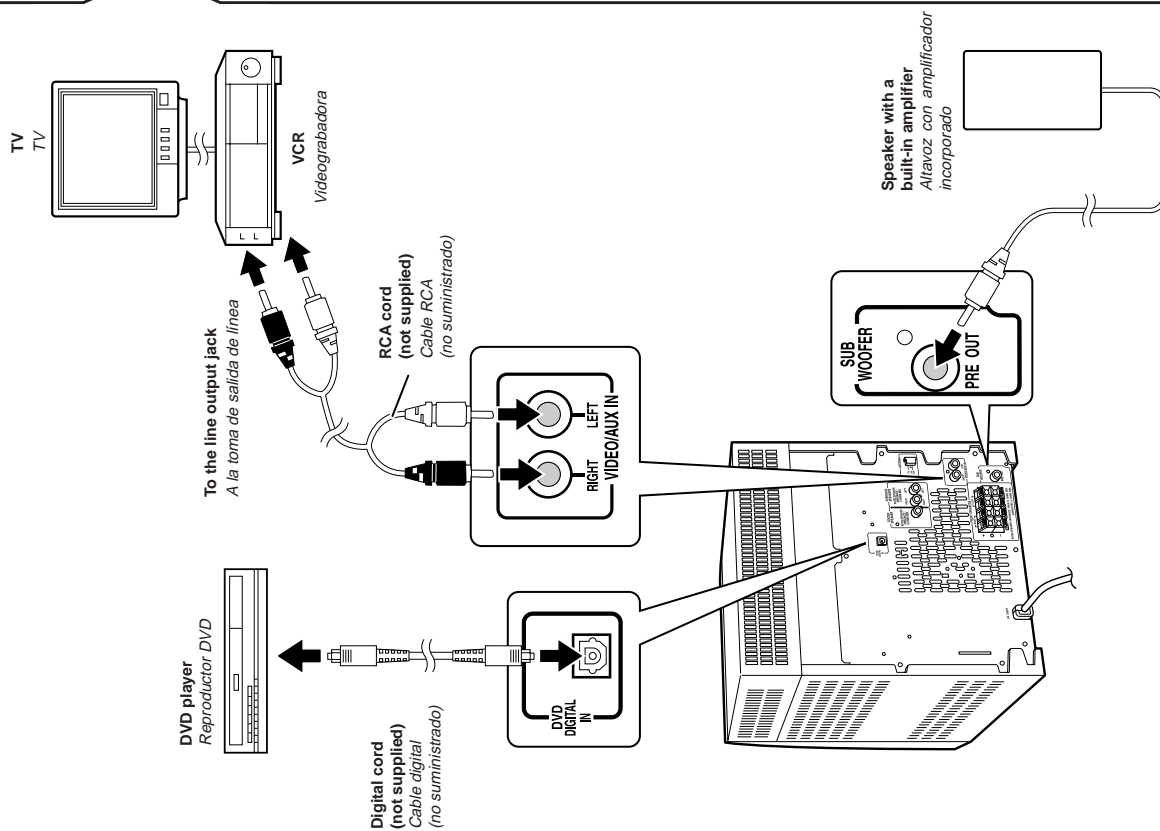
**Example: When installed vertically**  
Ejemplo: Cuando se instalan verticalmente



**Example: When installed horizontally**  
Ejemplo: Cuando se instalan horizontalmente



## 4 External unit Connections Conexiones de unidades externas



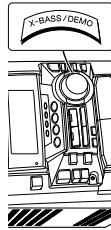
## 6 Turning on Your System

### Conexión de la alimentación de su sistema

The first time the unit is plugged, the unit will enter the demonstration mode. You will see words scroll.

Cuando se enchufe por primera vez el aparato, se establecerá en el modo de demostración. Verá un desplazamiento de palabras.

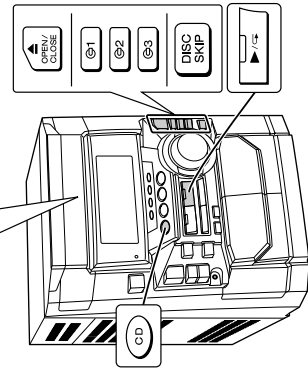
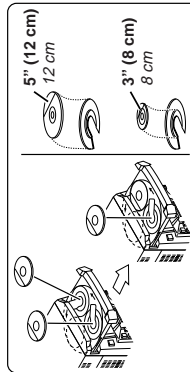
- 1 Press the **X-BASS/DEMO** button to cancel the demonstration mode.  
Pulse el botón **X-BASS/DEMO** para cancelar el modo de demostración.



- 2 Press the **POWER** button to turn the power on.  
Pulse el botón **POWER** para conectar la alimentación.



## Listening to a CD (CDs) Audición de un disco CD (discos CD)



- 1 Press the **CD** button.  
Pulse el botón **CD**.
- 2 Press the **OPEN/CLOSE** button to open the disc tray.  
Pulse el botón **OPEN/CLOSE** para abrir la bandeja de discos.
- 3 Place the **CD(s)** on the disc tray, label side up.  
When loading a third disc, press the **DISC SKIP** button to turn the disc tray, then place the CD in the open position.  
Coloque el disco compacto en la bandeja de discos, con el lado de la etiqueta hacia arriba.  
Cuando ponga un tercer disco, pulse el botón **DISC SKIP** para girar la bandeja de discos, y coloque el disco compacto en la posición abierta.
- 4 Press the **OPEN/CLOSE** button to close the disc tray.  
Pulse el botón **OPEN/CLOSE** para cerrar la bandeja de discos.
- 5 To select the CD you want to listen to first, press one of **1 - 3** buttons.  
Para seleccionar el disco CD que desee escuchar primero, pulse uno de los botones **1 - 3**.
- 6 Press the **▶/◀** button to start playback.  
Pulse el botón **▶/◀** para iniciar la reproducción.

## Listening to the Radio Audición de la radio

- 1 Press the **TUNER (BAND)** button repeatedly to select the desired frequency band (FM or AM).  
Pulse repetidamente el botón **TUNER (BAND)** para seleccionar la banda de frecuencia deseada (FM o AM).
- 2 Press the **TUNING/TIME** (◀ or ▶) button to tune in to the desired station.  
When the **TUNING/TIME** (◀ or ▶) button is pressed for more than 0.5 seconds, scanning will start automatically and the tuner will stop at the first receivable broadcast station.  
Pulse el botón **TUNING/TIME** (◀ or ▶) para sintonizar la emisora deseada.  
Cuando se pulse el botón **TUNING/TIME** (◀ or ▶) durante más de 0.5 segundos, la exploración se iniciará automáticamente y el sintonizador se parará en la primera emisora difusora que pueda recibirse.

**FM stereo mode indicator**  
Indicador del modo de FM en estéreo

**To receive an FM stereo transmission:**  
Press the **TUNER (BAND)** button to display "ST".  
• "CD" will appear when an FM broadcast is in stereo.  
Para recibir una transmisión de FM en estéreo:  
Pulse el botón **TUNER (BAND)** para visualizar "ST".  
• "CD" aparecerá cuando una difusión de FM sea en estéreo.

## Listening to a Cassette Tape (TAPE 1 or TAPE 2) Audición de una cinta de cassette (TAPE 1 o TAPE 2)

- 1 Open the cassette door by pushing the area marked "▲ PUSH EJECT".  
Abra la puerta del cassette pulsando la parte marcada "▲ PUSH EJECT".
- 2 Load the cassette into the **TAPE 1** or **TAPE 2** cassette compartment with the side to be played facing toward you.  
Cargue el cassette en el compartimiento de cassette de **TAPE 1** o de **TAPE 2** con la cara a reproducirse encarada hacia usted.
- 3 Press the **TAPE** (1 ~ 2) button to select the cassette you want to listen to.  
Pulse el botón **TAPE** (1 ~ 2) para seleccionar el cassette que desee escuchar.
- 4 Press the **▶/◀** button to start playback.  
Pulse el botón **▶/◀** para iniciar la reproducción.

## DISASSEMBLY

**Caution on Disassembly**

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

**CD-DD4500**

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	12-1
2	Side Panel (Left/Right)	1. Screw ..... (B1) x8	12-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD tray cover, and close. (Note 1) 2. Screw ..... (C1) x1 3. Hook ..... (C2) x3 4. Hook ..... (C3) x2 5. Socket ..... (C4) x3	12-2 12-2,13-2
4	Dolby PWB	1. Screw ..... (D1) x5 2. Flat Cable ..... (D2) x2	13-2
5	Rear Panel with Fan Motor	1. Screw ..... (E1) x11 2. Socket ..... (E2) x1	12-2,13-2 13-2
6	Main PWB	1. Screw ..... (F1) x2 2. Flat Cable ..... (F2) x1 3. Socket ..... (F3) x6	12-2,13-3 13-3
7	AMP. A/AMP. B PWB with Heat Sink	1. Screw ..... (G1) x4 2. Flat Wire ..... (G2) x1 3. PWB Holder ..... (G3) x2	13-4
8	Front Panel	1. Screw ..... (H1) x3	13-4
9	Display PWB	1. Knob ..... (J1) x1 2. Screw ..... (J2) x13 3. Flat Cable ..... (J3) x1	13-5
10	Tape Mechanism	1. Open the cassette holder. 2. Screw..... (K1) x5	13-5
11	Headphones PWB	1. Screw ..... (L1) x1	13-5
12	Turntable	1. Hook ..... (M1) x2 2. Cover ..... (M2) x1	13-6
13	Disc Tray	1. Turn fully the lock lever in the arrow direction. 2. While holding the lock lever, rotate the cam gear until the cam gear rib engages with the clamp lever. 3. Push the slide chassis backward to engage the claw with the groove and remove it in the direction of the arrow. .... (N1) x6	12-3 13-1 14-1
14	CD Servo PWB (Note 2)	1. Screw ..... (P1) x1 2. Hook ..... (P2) x2 3. Socket ..... (P3) x4	14-2
15	CD Mechanism	1. Hook ..... (Q1) x2 2. Hook ..... (Q2) x3	14-3

**Note 1:** How to open the changer manually. (Fig. 12-3)

1. In this state, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom.
2. While holding the lock lever, rotate the cam gear anticlockwise until the cam gear rib engages with the clamp lever. (Fig. 13-1)
3. After that, push forward the slide Chassis.

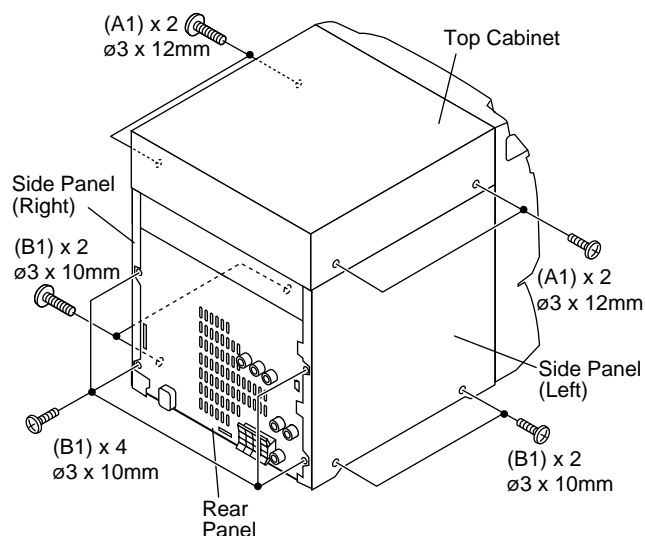
**CD-DD4500**

Figure 12-1

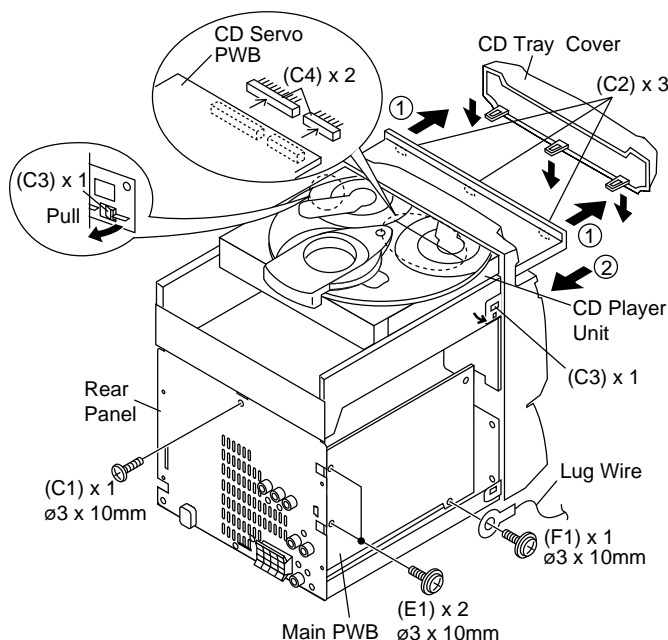


Figure 12-2

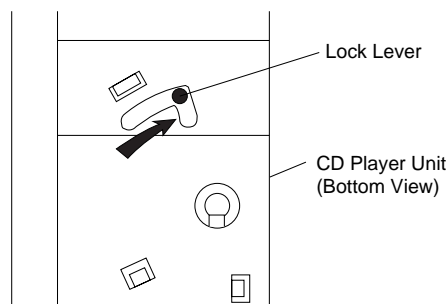


Figure 12-3

**Note 2:**

1. After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electrostatic damage.

**Note 3:**

1. Be careful not to break the claw of the CD mechanism.
2. When fining back the cam gear assembly, let it lock by front movement.

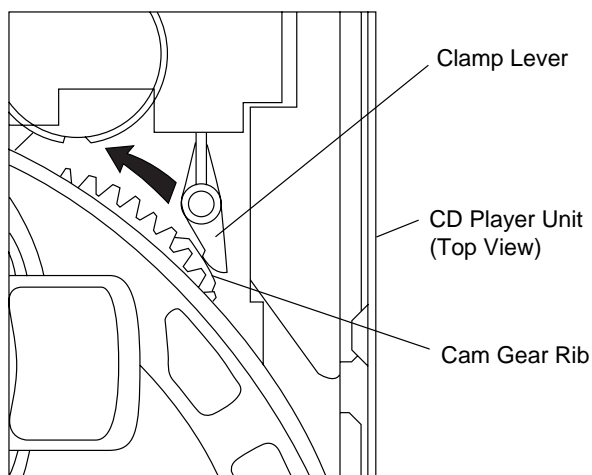


Figure 13-1

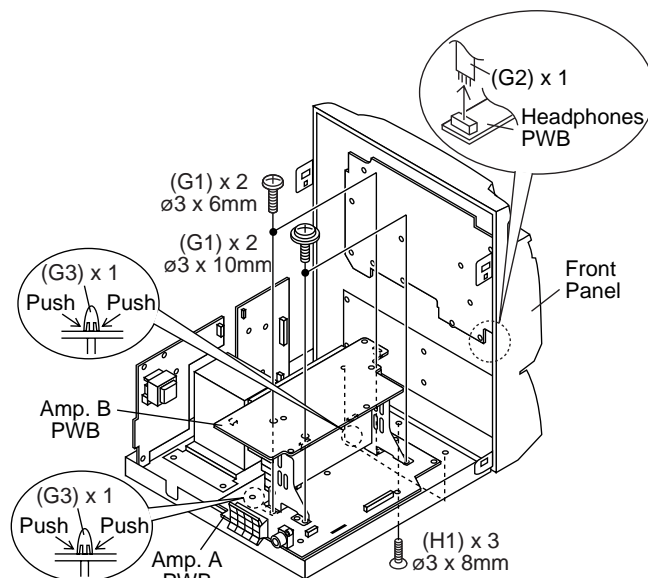


Figure 13-4

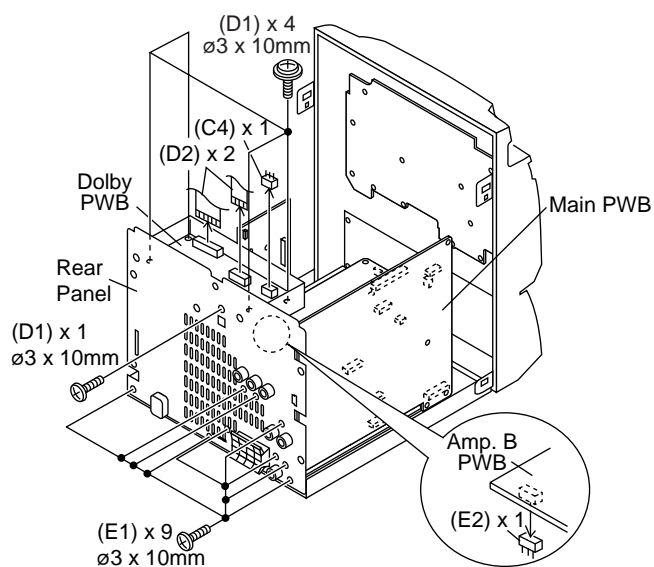


Figure 13-2

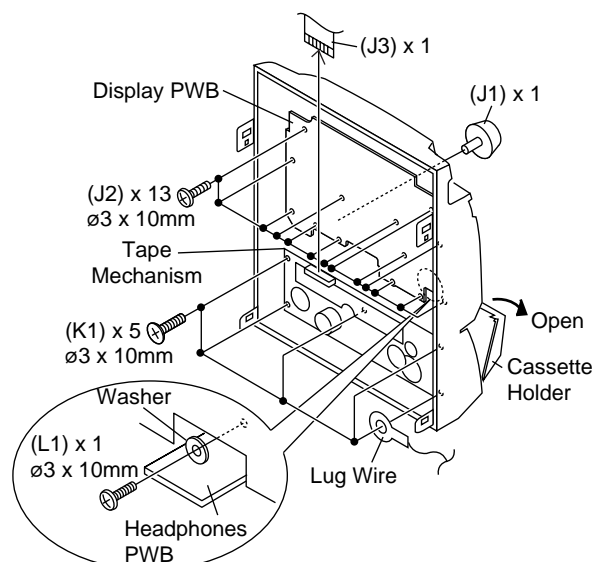


Figure 13-5

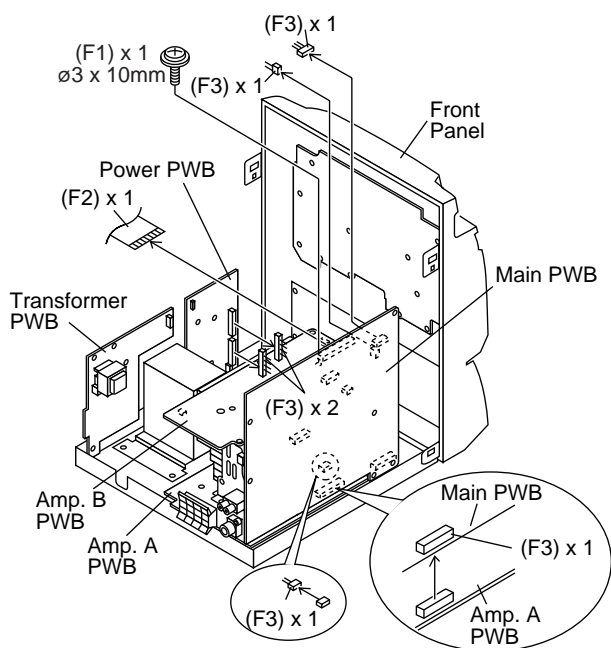


Figure 13-3

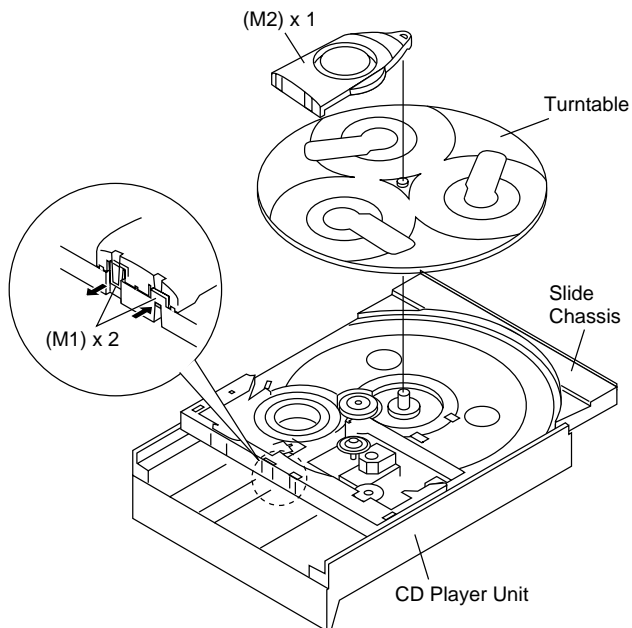


Figure 13-6



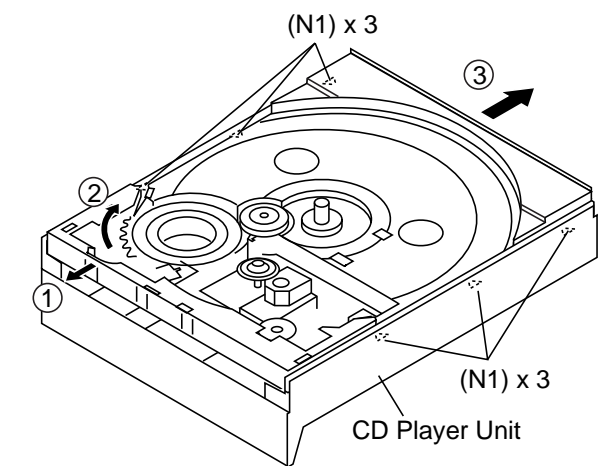


Figure 14-1

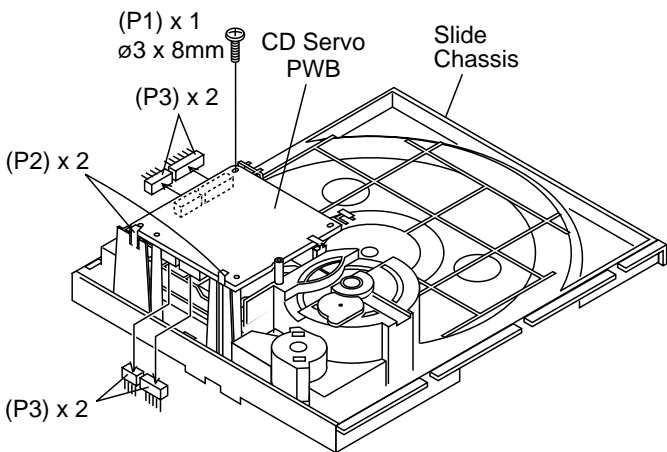


Figure 14-2

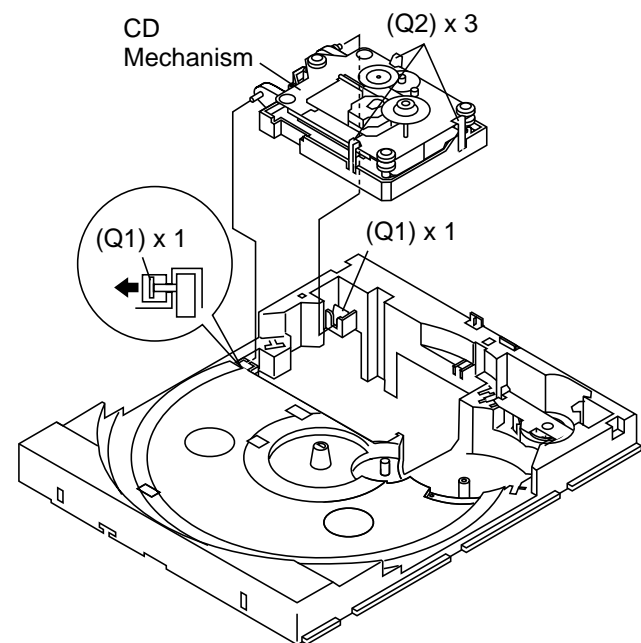


Figure 14-3

CP-DD4500			
STEP	REMOVAL	PROCEDURE	FIGURE
1	Subwoofer	1. Front Panel ..... (A1) x1 2. Screw ..... (A2) x4	14-4 14-5
2	Woofer	1. Screw ..... (B1) x4	14-5
3	Tweeter	1. Screw ..... (C1) x2	14-5

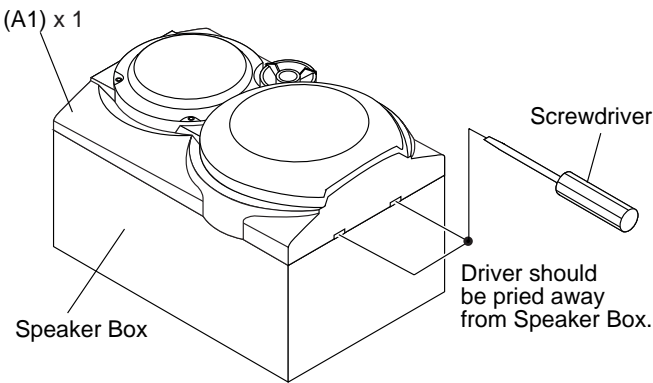


Figure 14-4

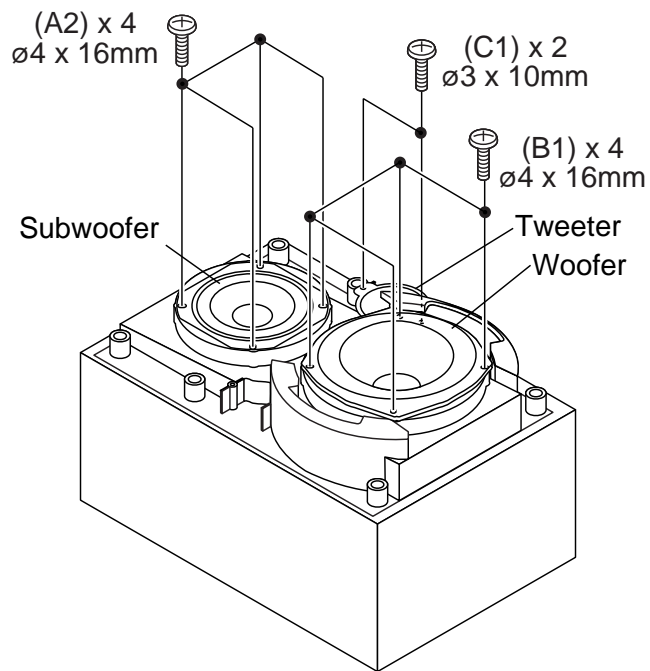


Figure 14-5



## REMOVING AND REINSTALLING THE MAIN PARTS

### TAPE MECHANISM SECTION

Perform steps 1 to 8 and 10 of the disassembly method to remove the tape mechanism.

#### How to remove the record/playback and erase heads (TAPE 2) (See Fig. 15-1)

1. When you remove the screws (A1) x 2 pcs., the recording/playback head and three-dimensional head of the erasing head can be removed.

#### How to remove the playback head (TAPE 1) (See Fig. 15-2)

1. When you remove the screws (B1) x 2 pcs., the playback head can be removed.

#### How to remove the pinch roller (TAPE 1/2) (See Fig. 15-3)

1. Carefully bend the pinch roller pawl in the direction of the arrow <A>, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow <B>.

##### Note:

When installing the pinch roller, pay attention to the spring mounting position.

#### How to remove the belt (TAPE 2) (See Fig. 15-4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

#### How to remove the belt (TAPE 1) (See Fig. 15-4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

#### How to remove the motor (See Fig. 15-5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

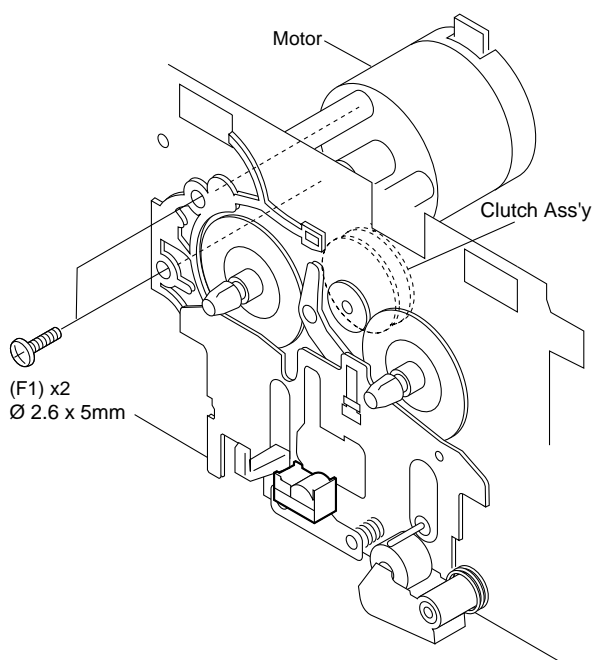


Figure 15-5

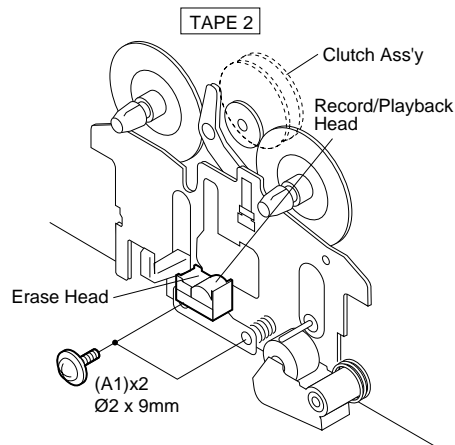


Figure 15-1

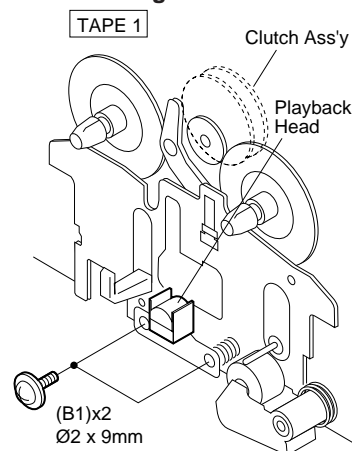


Figure 15-2

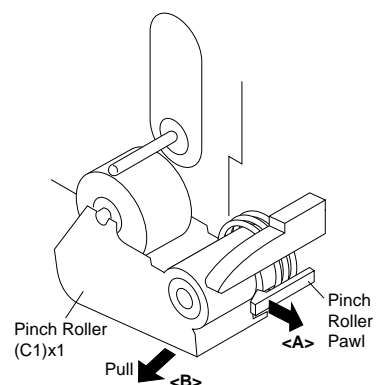


Figure 15-3

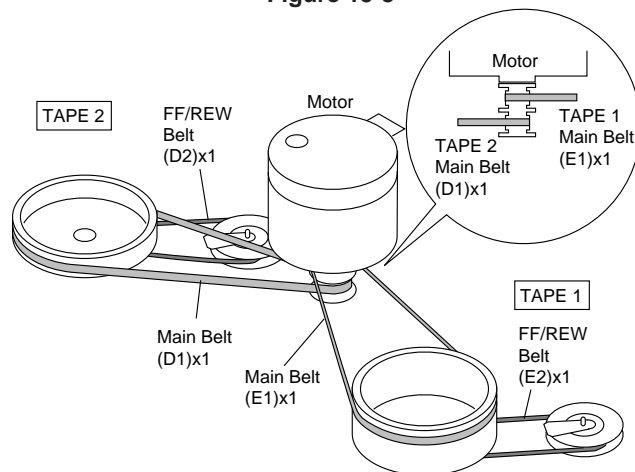


Figure 15-4

## CD-DD4500

### CD MECHANISM SECTION

Perform steps 1, 2, 3, 12, 13, 14 and 15 of the disassembly method to remove the CD mechanism.

#### How to remove the loading motor

(See Fig. 16-1)

1. Bend the hooks (A1) x 5 pcs., to remove the loading motor.
2. Remove the drive belt (A2) x 1 pc.

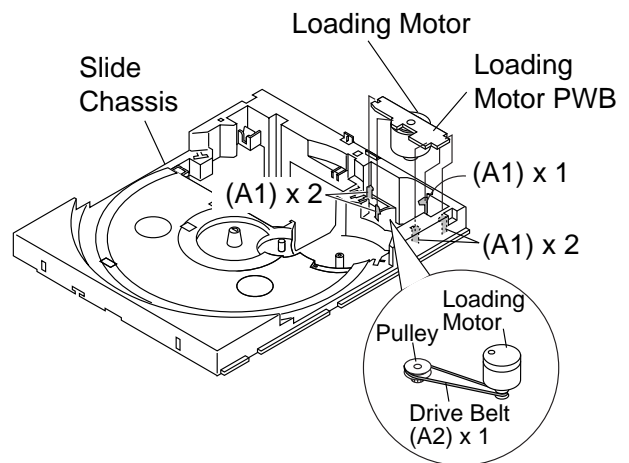


Figure 16-1

#### How to remove the pickup (See Fig. 16-2)

1. Remove the stop washer (B1) x 1 pc., to remove the gear (B2) x 1 pc.
2. Remove the screws (B3) x 2 pcs., to remove the shaft (B4).
3. Remove the pickup.

#### Note

After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

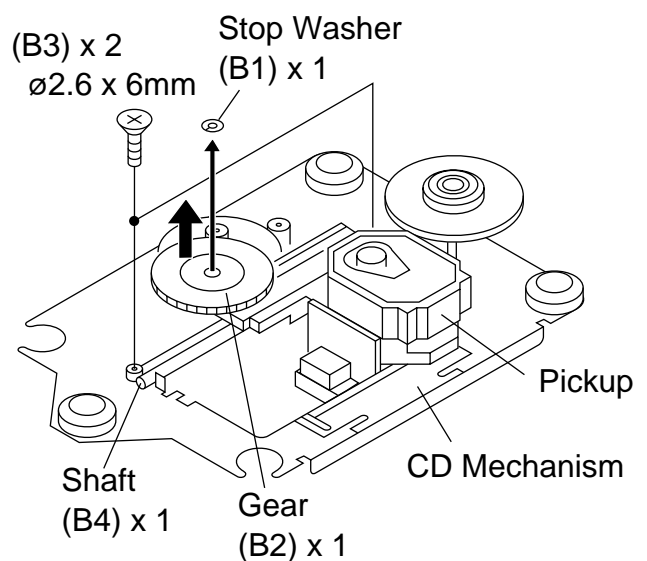


Figure 16-2

## ADJUSTMENT

### MECHANISM SECTION

#### • Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

#### • Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g.cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
Rewind: TW-2231	—	70 to 180 g.cm

#### • Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor.	$3,000 \pm 30$ Hz	Speaker Terminal (Load resistance: 6 ohms)

### TAPE MECHANISM

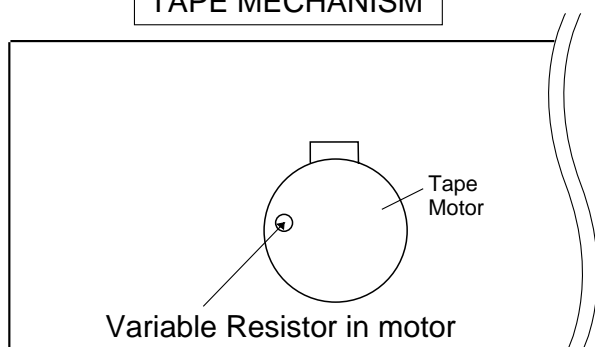


Figure 17-1

### TUNER SECTION

fL: Low-range frequency

fH: High-range frequency

#### • AM adjustment and confirmation

AM signal oscillator Frequency 400 Hz, 30 %, AM modulation

Adjusting item	Adjusting object	Adjusting method
IF	Adjust the indication of T351 set to 1,720 kHz.	Set IF waveform 450 kHz to maximum.
Frequency cover (VT line voltage of TP301)	fL: T306 (530 kHz) Adjust the indication of set to 530 kHz. fH: (1,720 kHz)	fL: $1.3 \pm 0.1$ V fH: $8.5 \pm 1.3$ V (Only confirmation)
Tracking	fL: T302 (990 kHz)	Set the output of speaker terminal to maximum.

#### • FM mute level adjustment

FM signal oscillator Frequency 1 kHz, 22.5 kHz

Frequency	Adjusting method	Adjusting object	Adjusting object
98.0 MHz	26 dB(EMF)	VR351	Input: CNP301 Output: Speaker Terminal

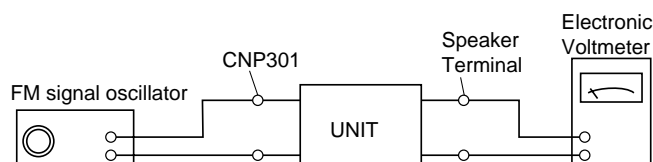


Figure 17-2 FM Mute Level

#### • Erasing the registered broadcast station

When the power is off, press and hold the TUNER (BAND) button and the X-BASS button, and then press the POWER button.

All the registered stations are erased.

#### • Setting the Test Mode

While holding down the MEMORY/SET button and the X-BASS button, press the POWER button. Frequencies are rewritten in memory as shown in table 17. Call them using the VOLUMN knob of tuner circuit adjustment and check.

Note that once you reinitialize the settings, the frequencies recorded by users will be changed.

Preset No.	Frequency	Preset No.	Frequency
P01	87.5 MHz	P06	530 kHz
P02	108.0 MHz	P07	1,720 kHz
P03	90.0 MHz	P08	600 kHz
P04	106.0 MHz	P09	1,400 kHz
P05	98.0 MHz	P10	990 kHz

Table 17

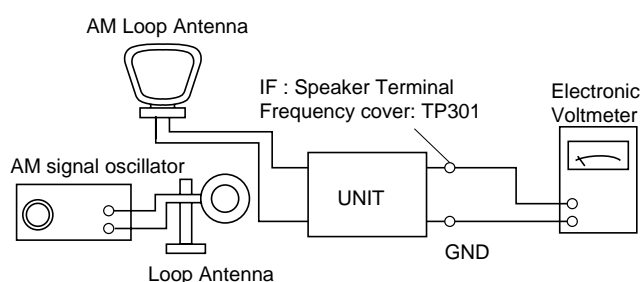


Figure 17-3 AM IF

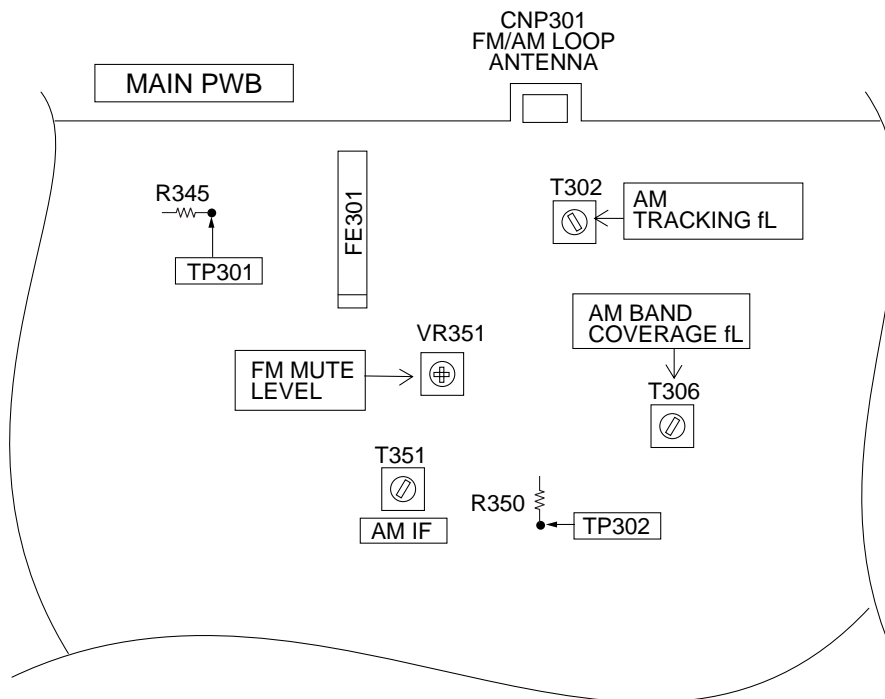


Figure 18-1 ADJUSTMENT POINTS

## CD SECTION

### • Adjustment

Since this CD system incorporates the following automatic adjustment functions, readjustment is not needed when replacing the pickup. Therefore, different PWBs and pickups can be combined freely.

Each time a disc is changed, these adjustments are performed automatically. Therefore, playback of each disc can be performed under optimum conditions.

### Items adjusted automatically

- (1) Offset adjustment (The offset voltage between the head amplifier output and the VREF reference voltage is compensated inside the IC.)
  - \* Focus offset adjustment
  - \* Tracking offset adjustment
- (2) Tracking balance adjustment (waveform drawing Fig.18-2 EFBL)
- (3) Gain adjustment (The gain is compensated inside the IC so that the loop gain at the gain crossover frequency will be 0 dB.)
  - \* Focus gain adjustment
  - \* Tracking gain adjustment

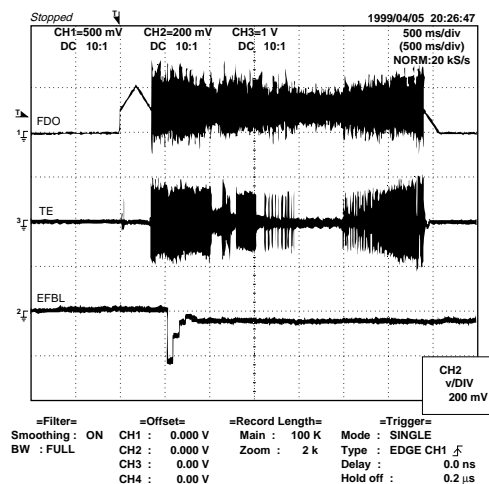


Figure 18-2

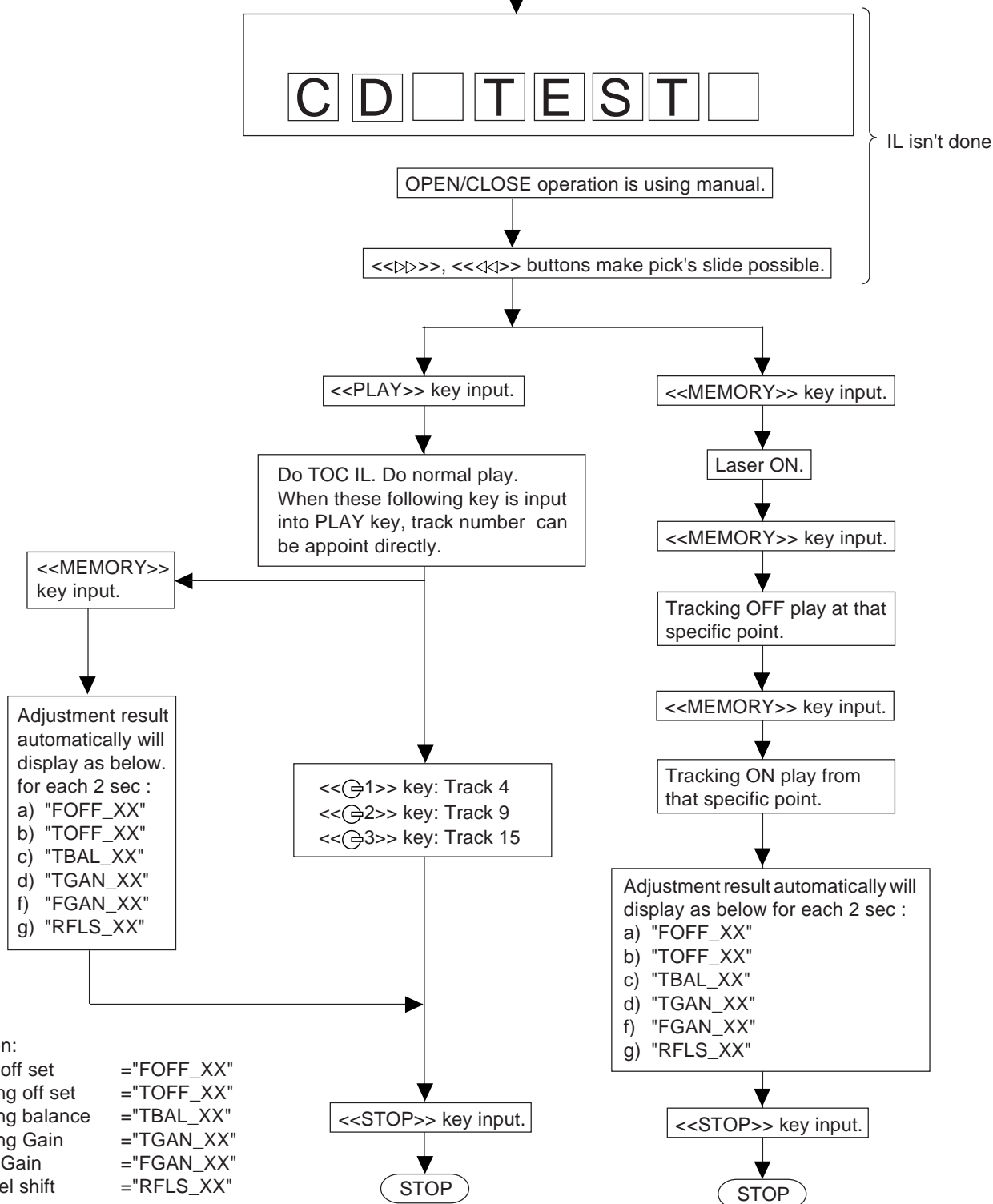
## TEST MODE

### • Setting the test mode

Any one of test mode can be set by pressing several keys as follows.

<X-BASS> + <CD> + <POWER> TEST: CD operation test.

Function:-CD test mode.  
-Enter test mode.



Sliding the PICKUP with  
<<D>>, <<L>> button  
must only be in STOP mode.

## Standard Specification of Stereo System Error Message Display Contents

Error Contents		DISPLAY	Notes
Output while Device Protection Operation.		TIMER LED FLASHING	While in Protect Circuit Operate. Over Current Detection. DC Detection.
TAPE	Mechanism Error.	'ER-TA**'	00: Tape Mechanism Error. 01: Initial Error. 02: 03:
CD/VCD	Pickup Mechanism Error.	'ER-CD**'	00: Pickup Mechanism Error. 01: PU-IN SW Detection NG. 02: 03: 04:
	CD Changer Mechanism Error.	'ER-CD**'	10: Changer Error. 11: Initial Error. 12: 13:
	Tray Error.	'ET-CD**'	20: Tray Error. 21: 22: 23:
	Focus Not Match.	'NO DISC'	
	IL Time Over.	'NOT READ'	
TUN	PLL Unlock.	'ER-TU**'	00: TUN Error. 01: PLL Unlock. 02: 03:



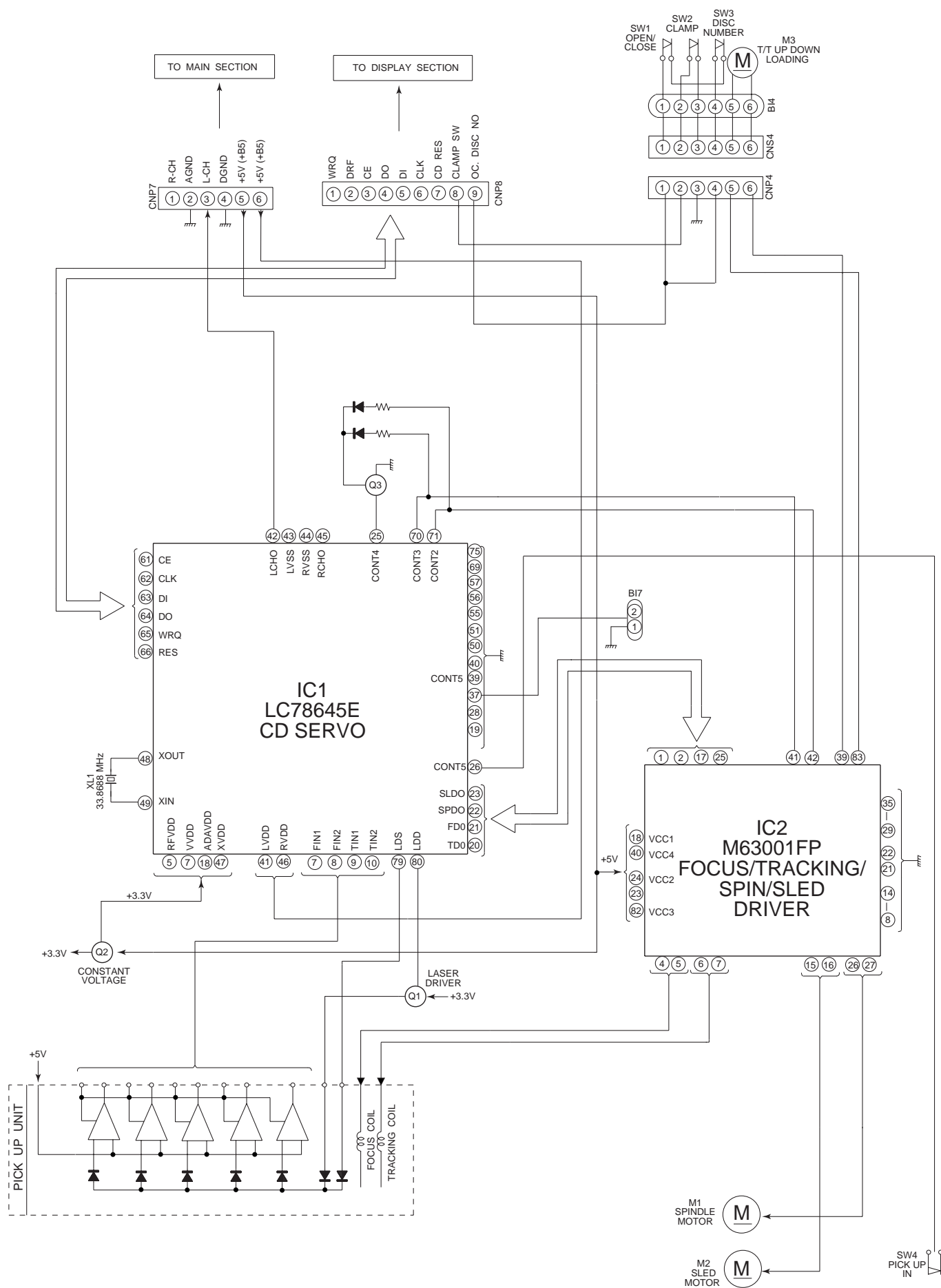


Figure 21 BLOCK DIAGRAM (1/3)

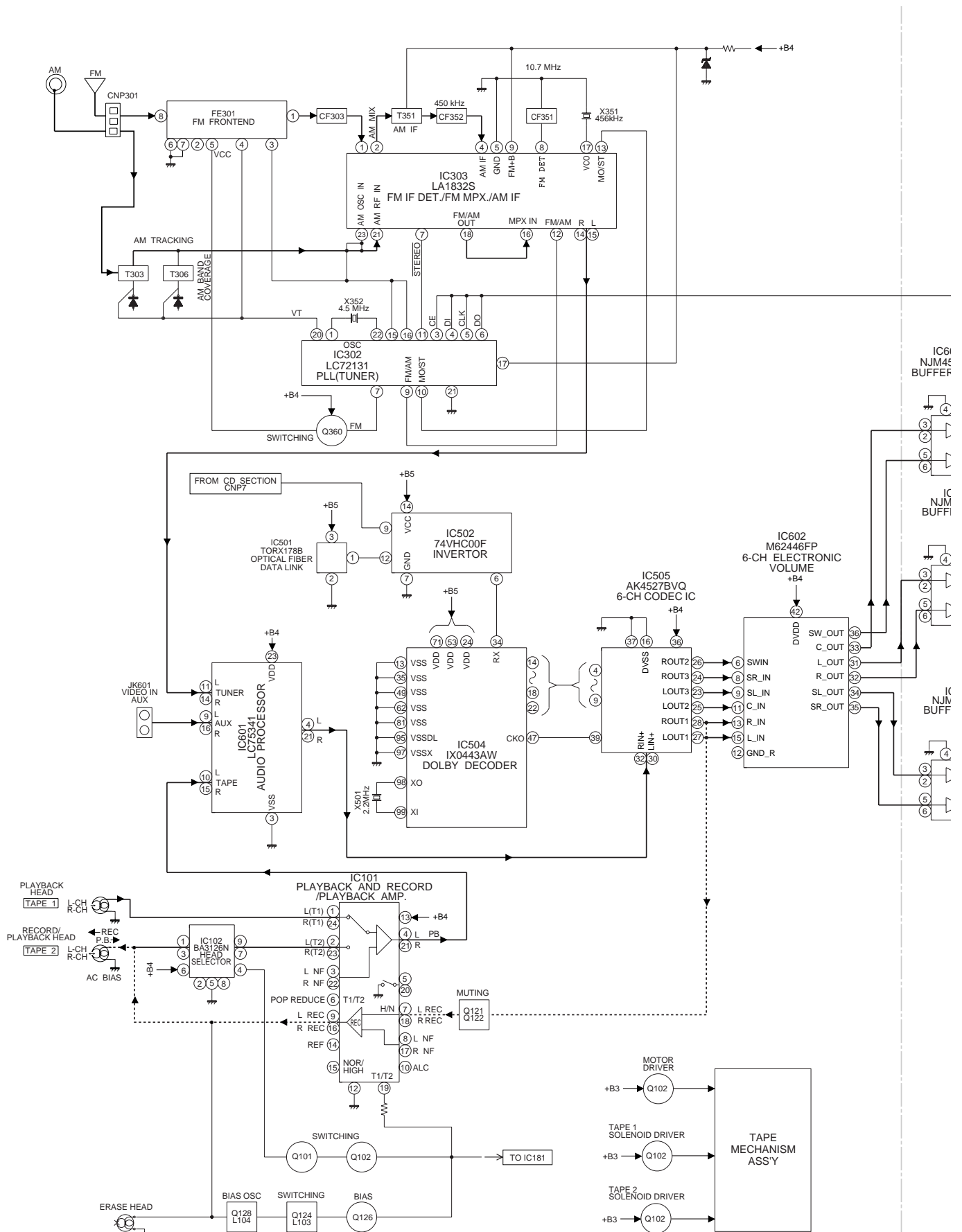


Figure 22 BLOCK DIAGRAM (2/3)

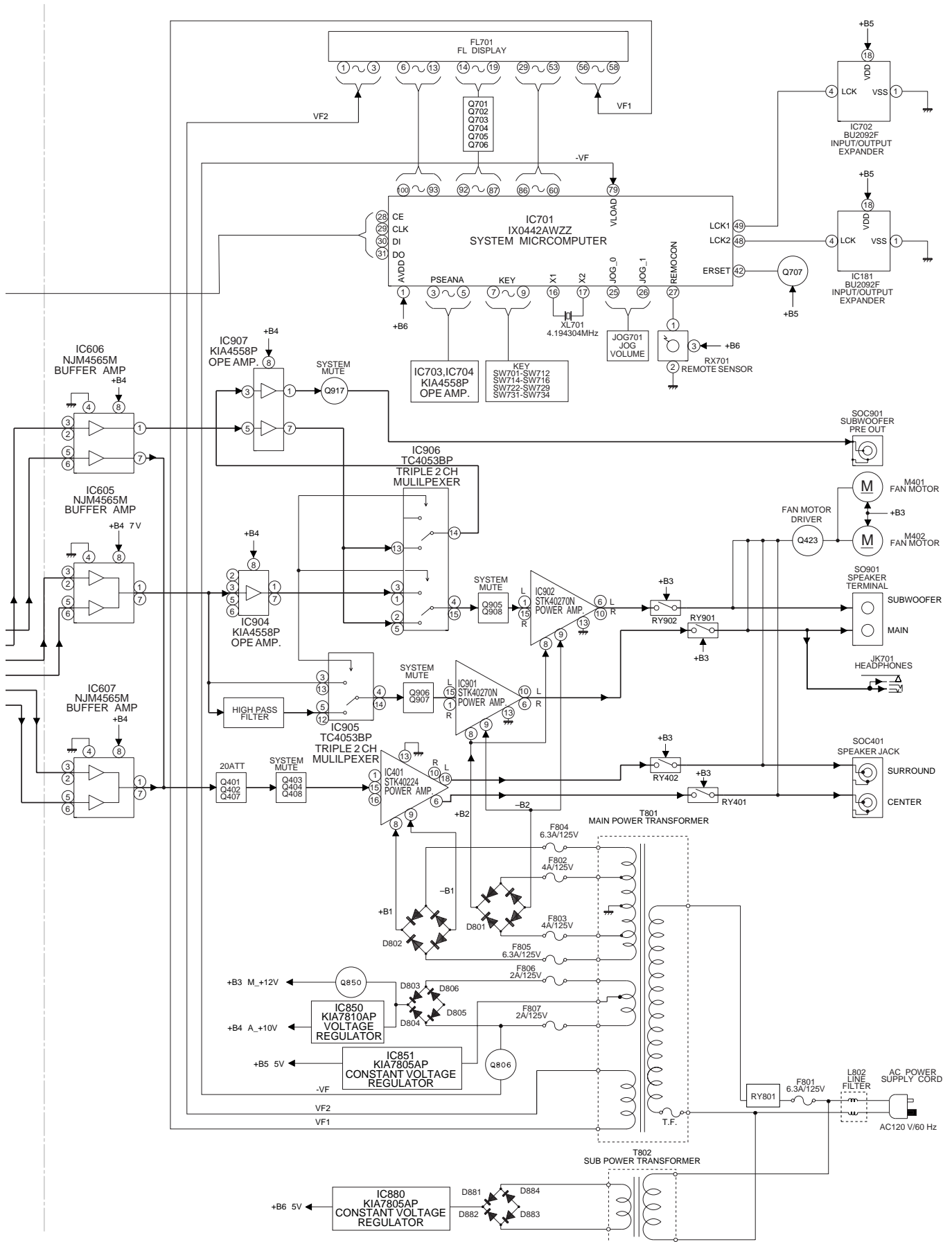


Figure 23 BLOCK DIAGRAM (3/3)

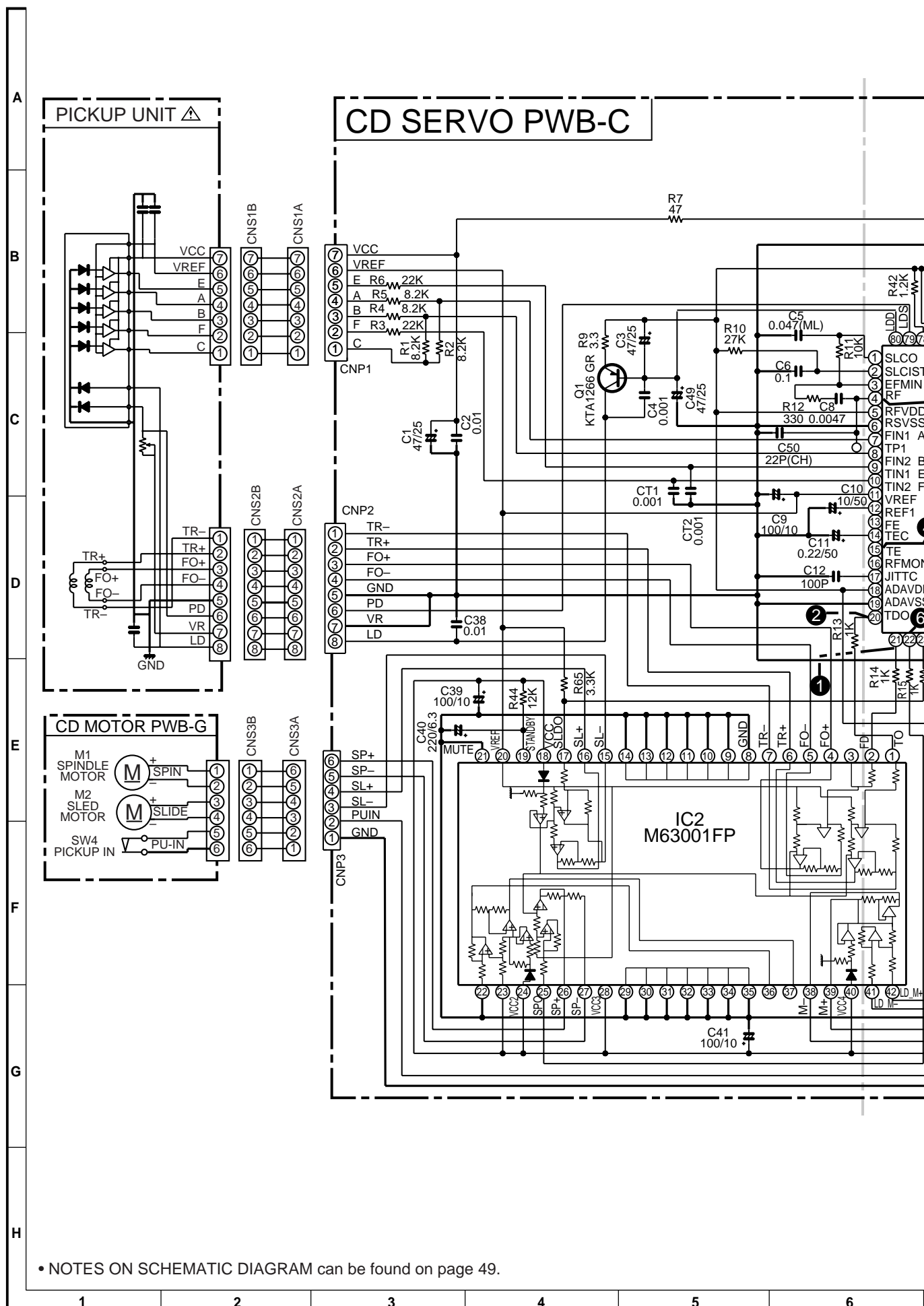
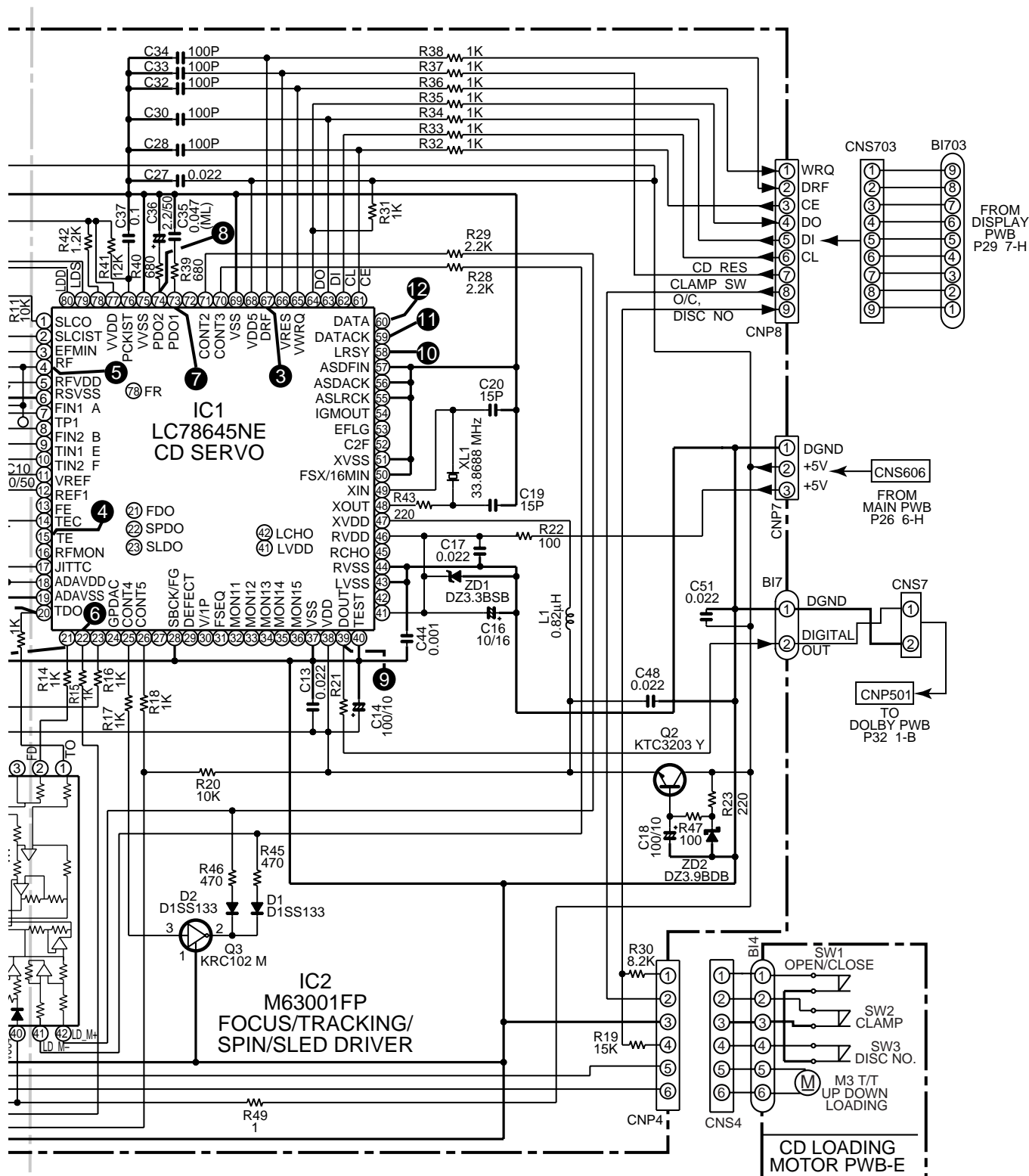


Figure 24 SCHEMATIC DIAGRAM (1/14)



• The numbers 1 to 12 are waveform numbers shown in page 50.

7	8	9	10	11	12
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Figure 25 SCHEMATIC DIAGRAM (2/14)

- 26 -



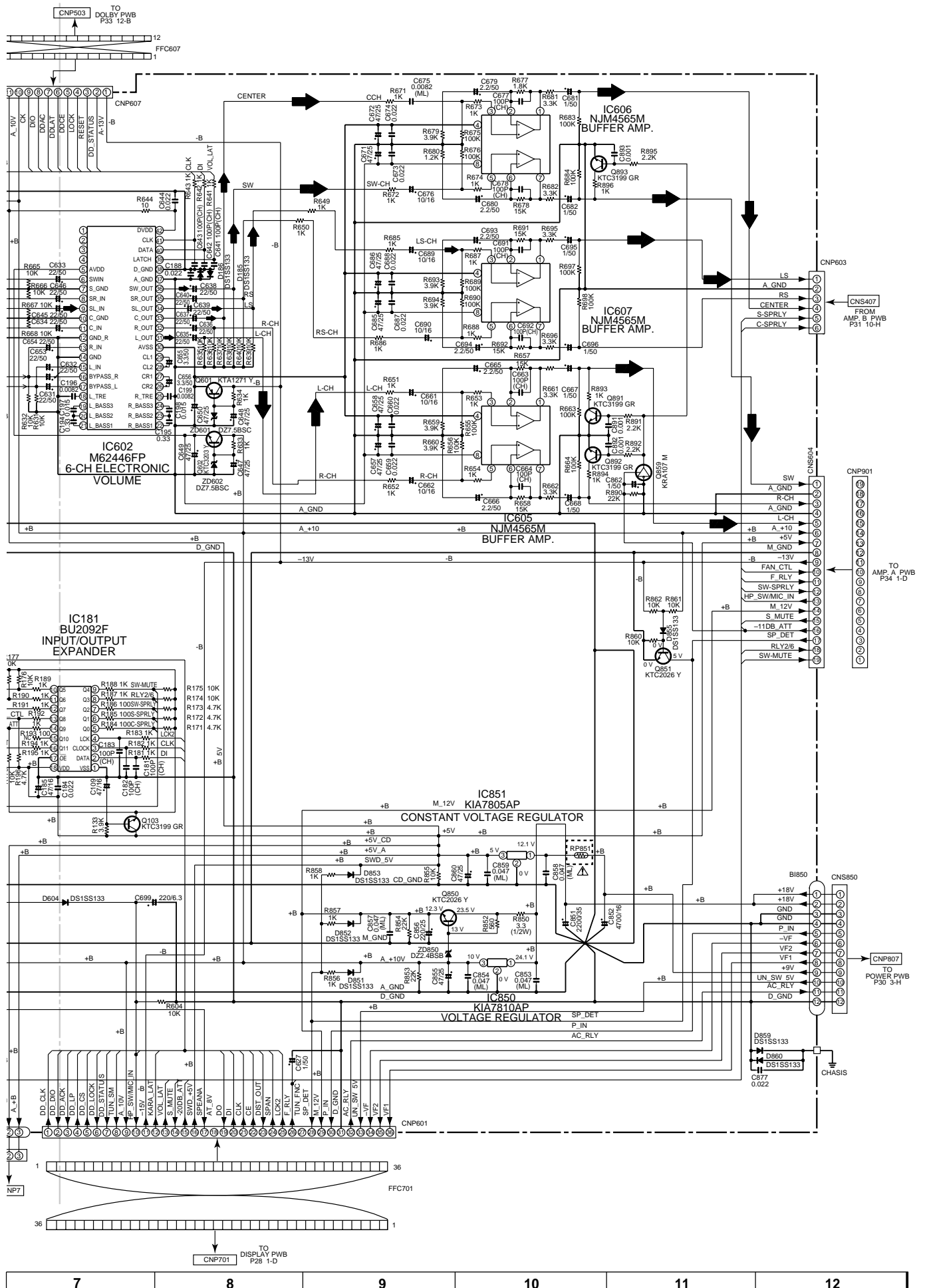


Figure 27 SCHEMATIC DIAGRAM (4/14)



- 28 -

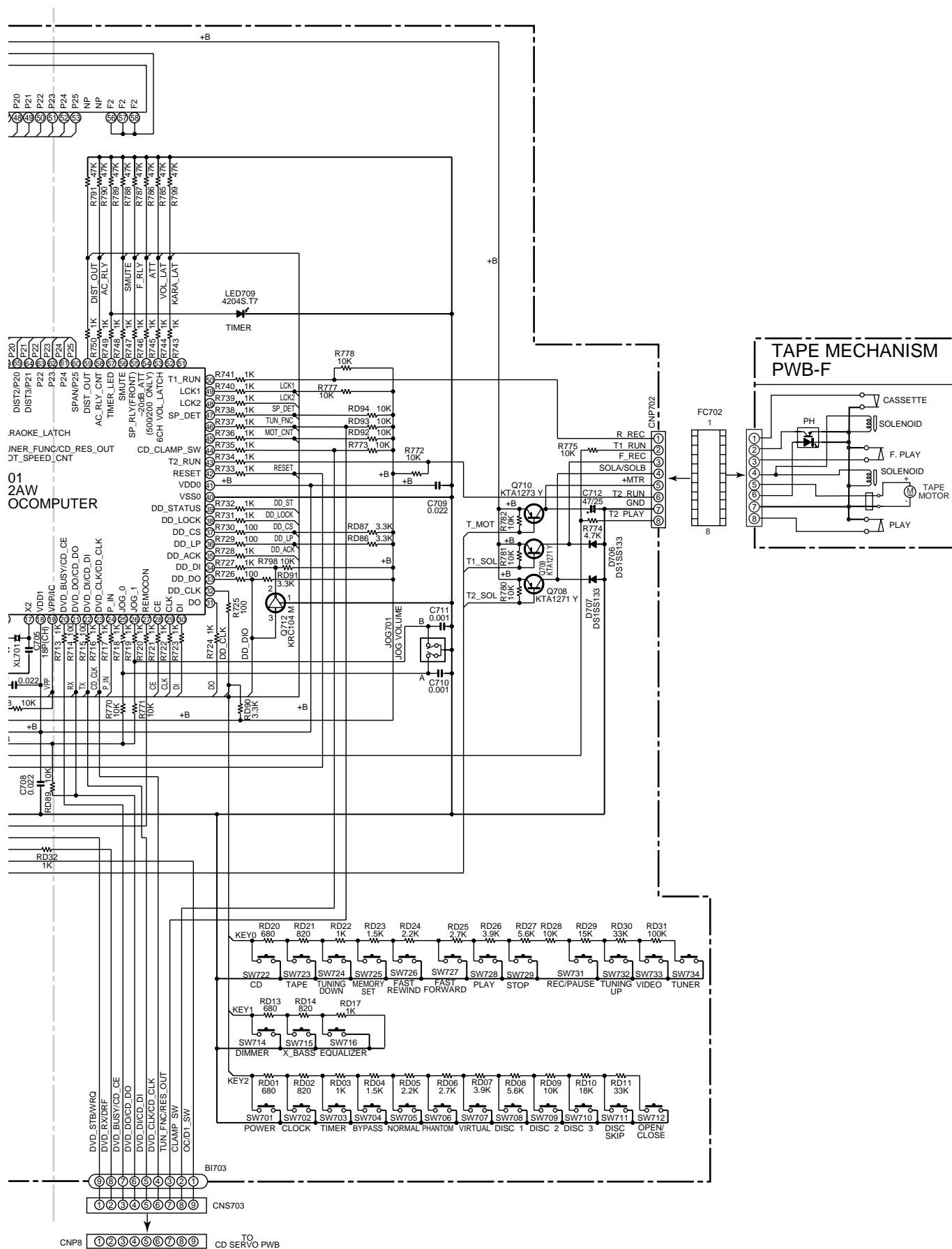


Figure 29 SCHEMATIC DIAGRAM (6/14)

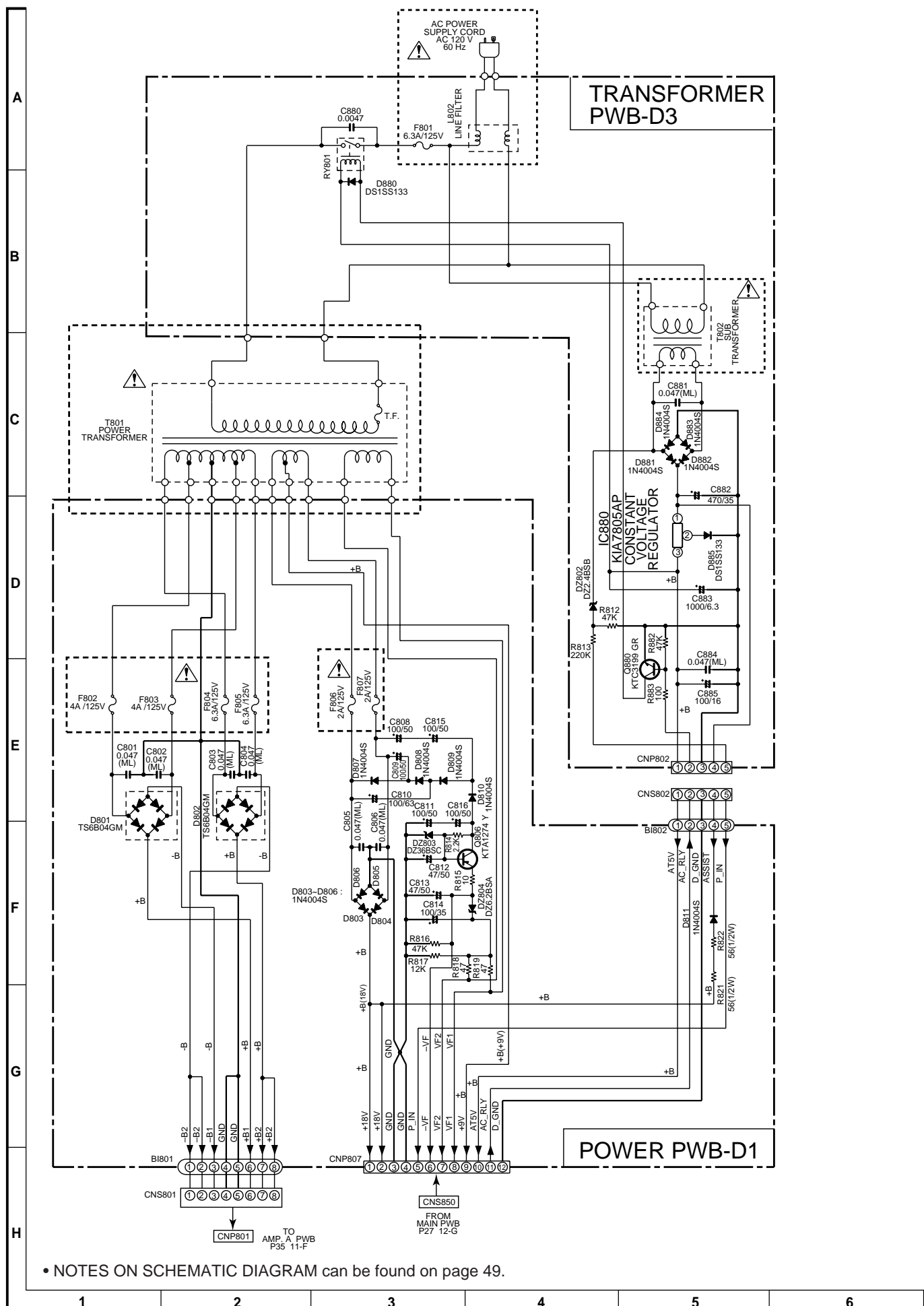


Figure 30 SCHEMATIC DIAGRAM (7/14)

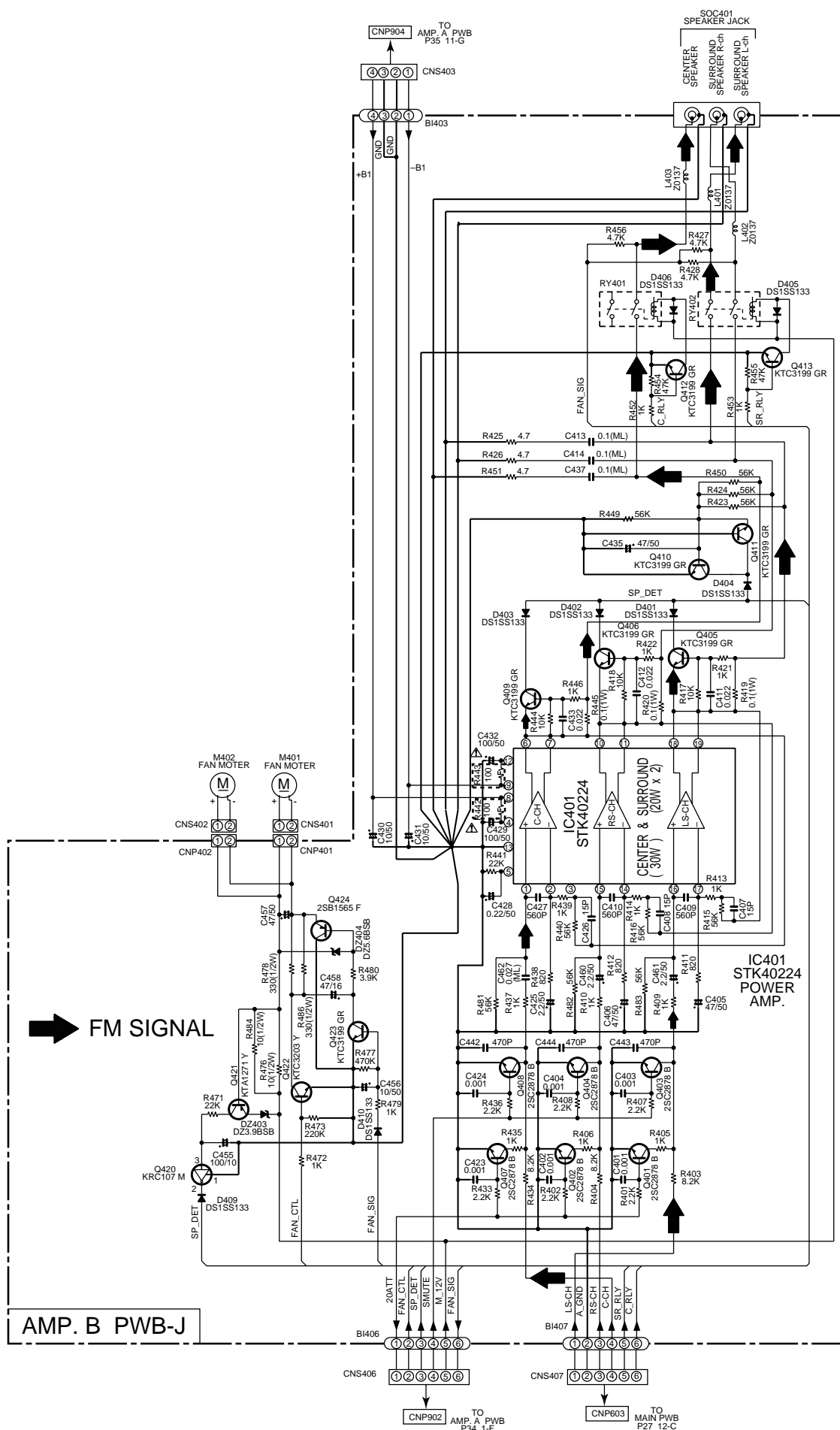
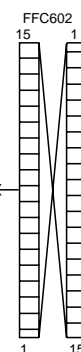


Figure 31 SCHEMATIC DIAGRAM (8/14)



- 32 -





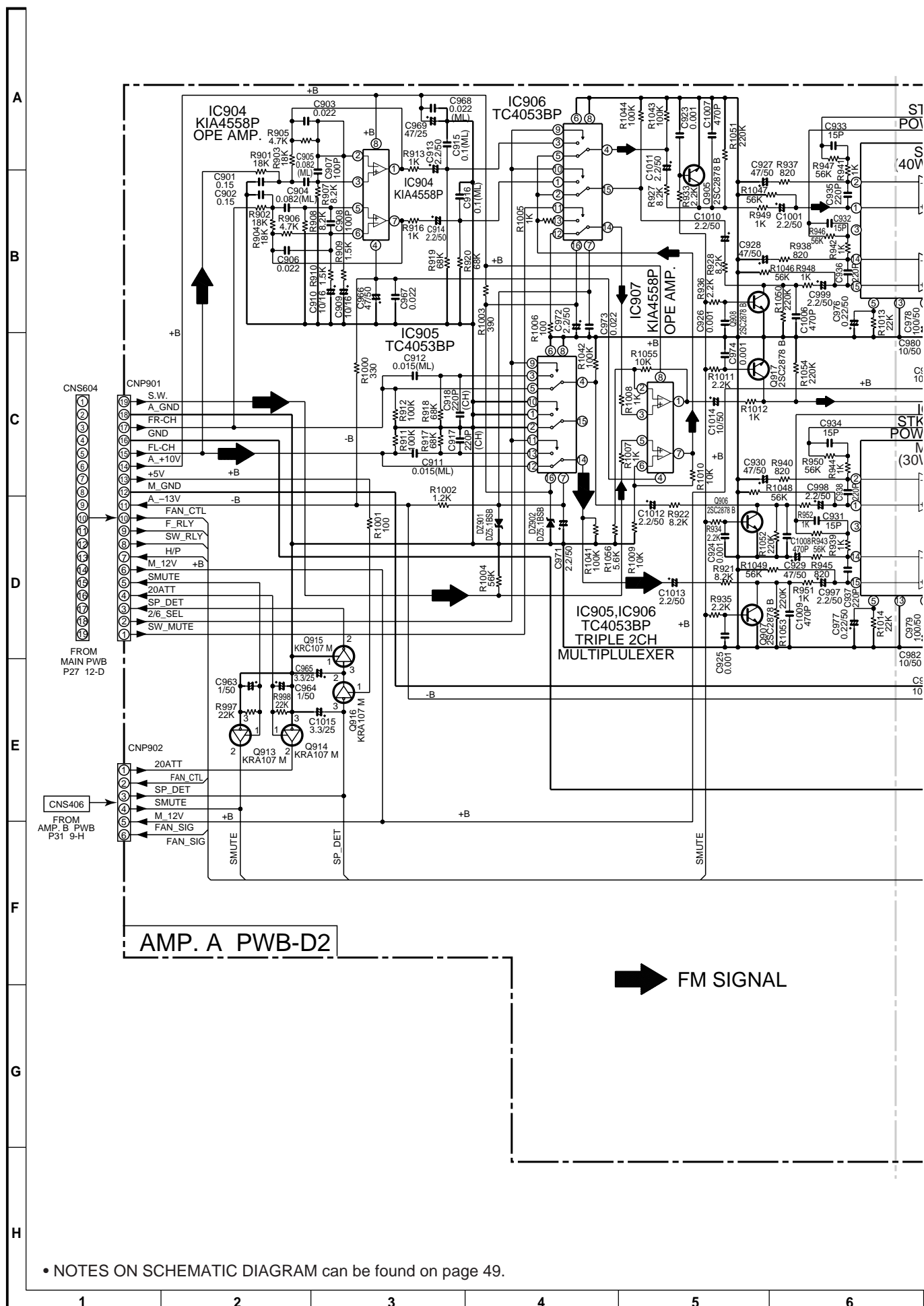
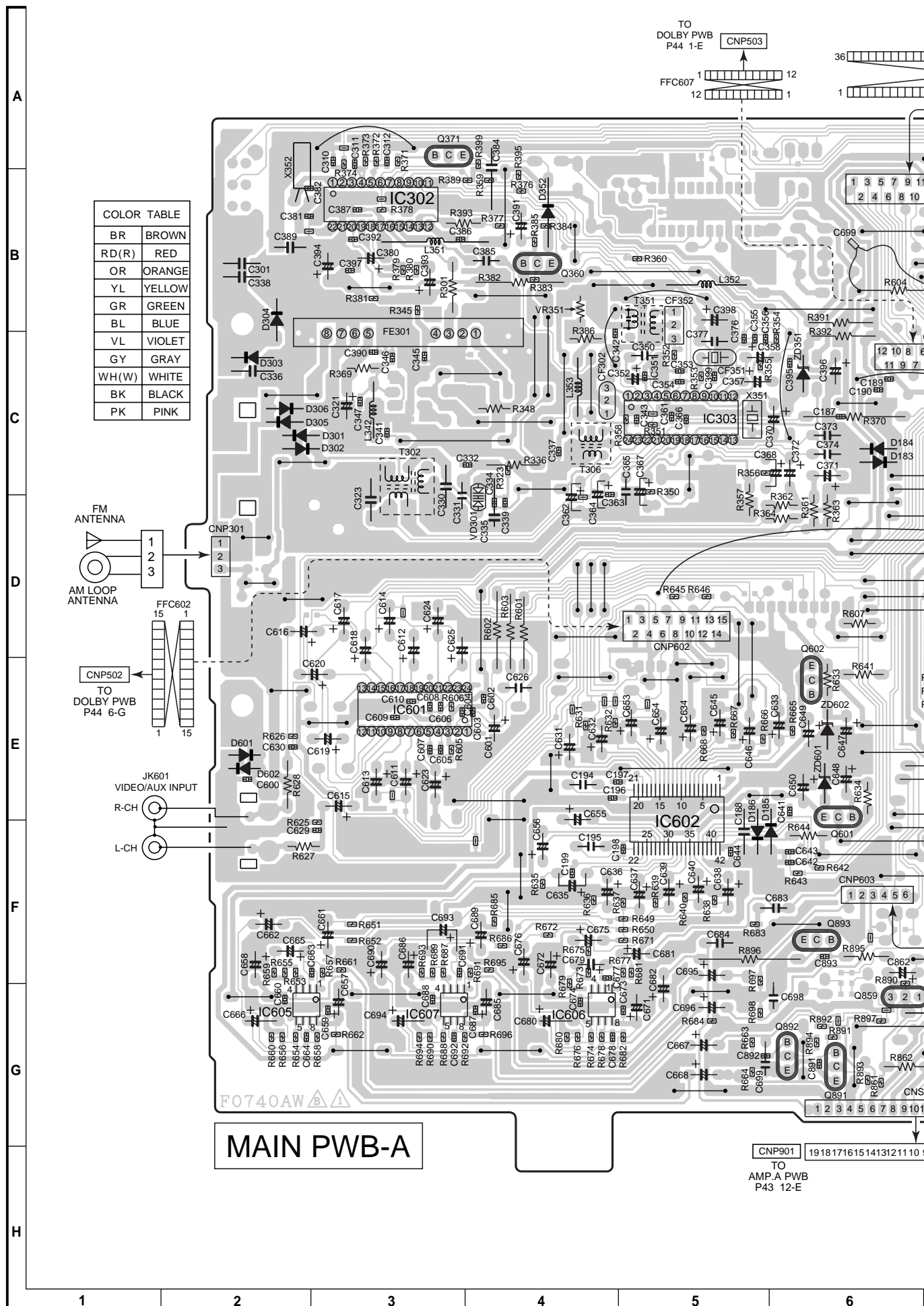


Figure 34 SCHEMATIC DIAGRAM (11/14)



- 36 -







- 39 -



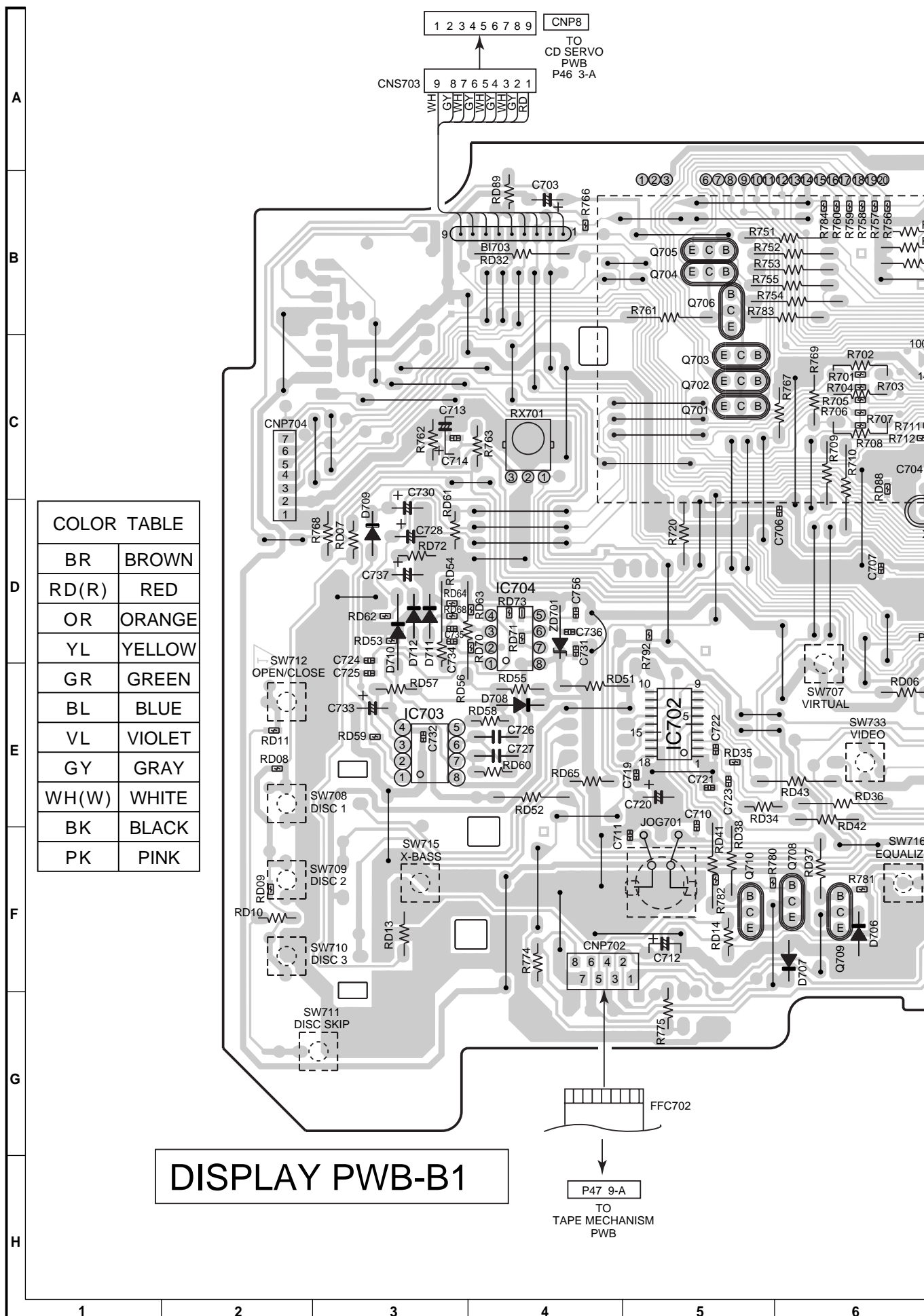
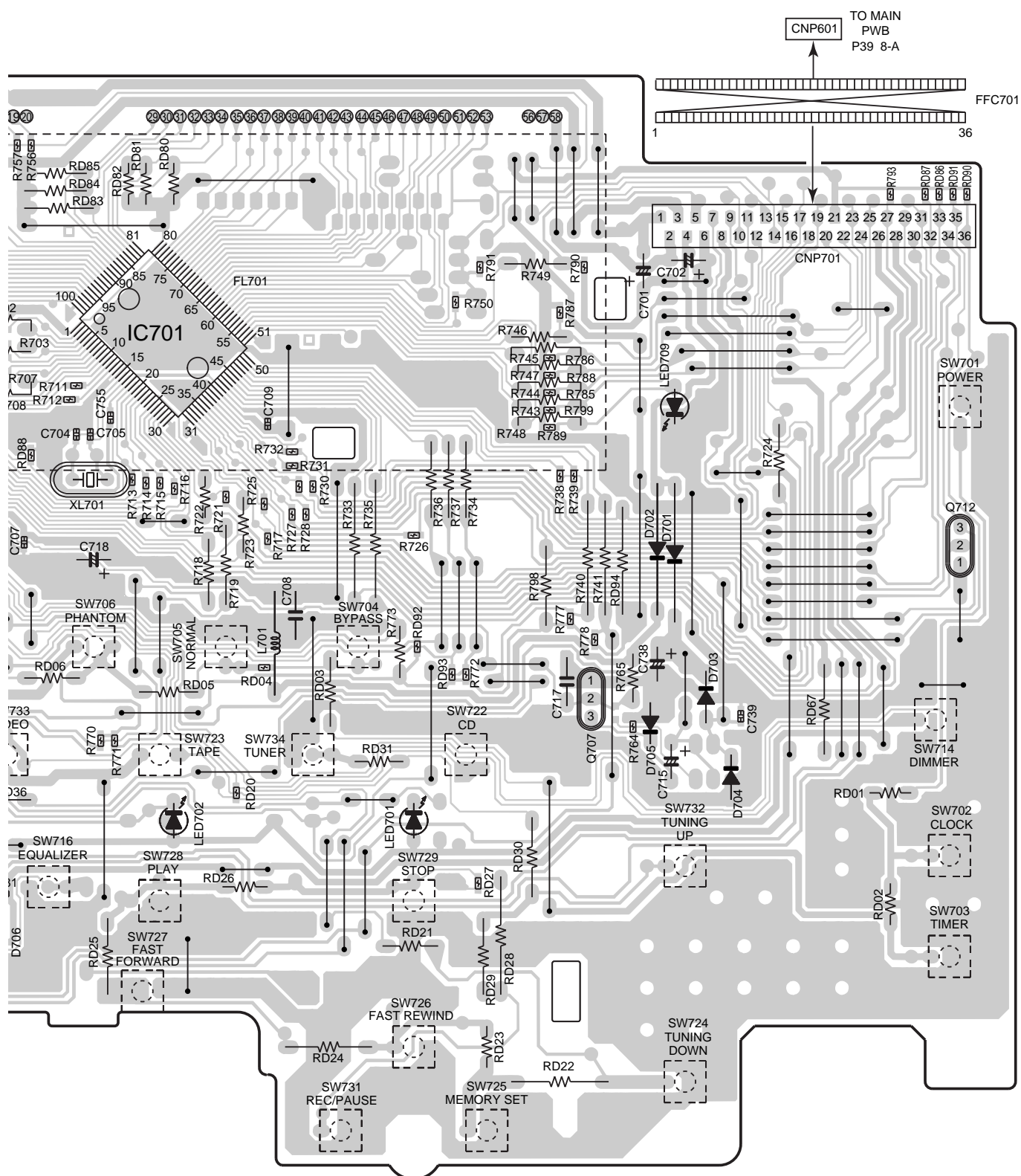


Figure 40 WIRING SIDE OF P.W.BOARD (3/10)



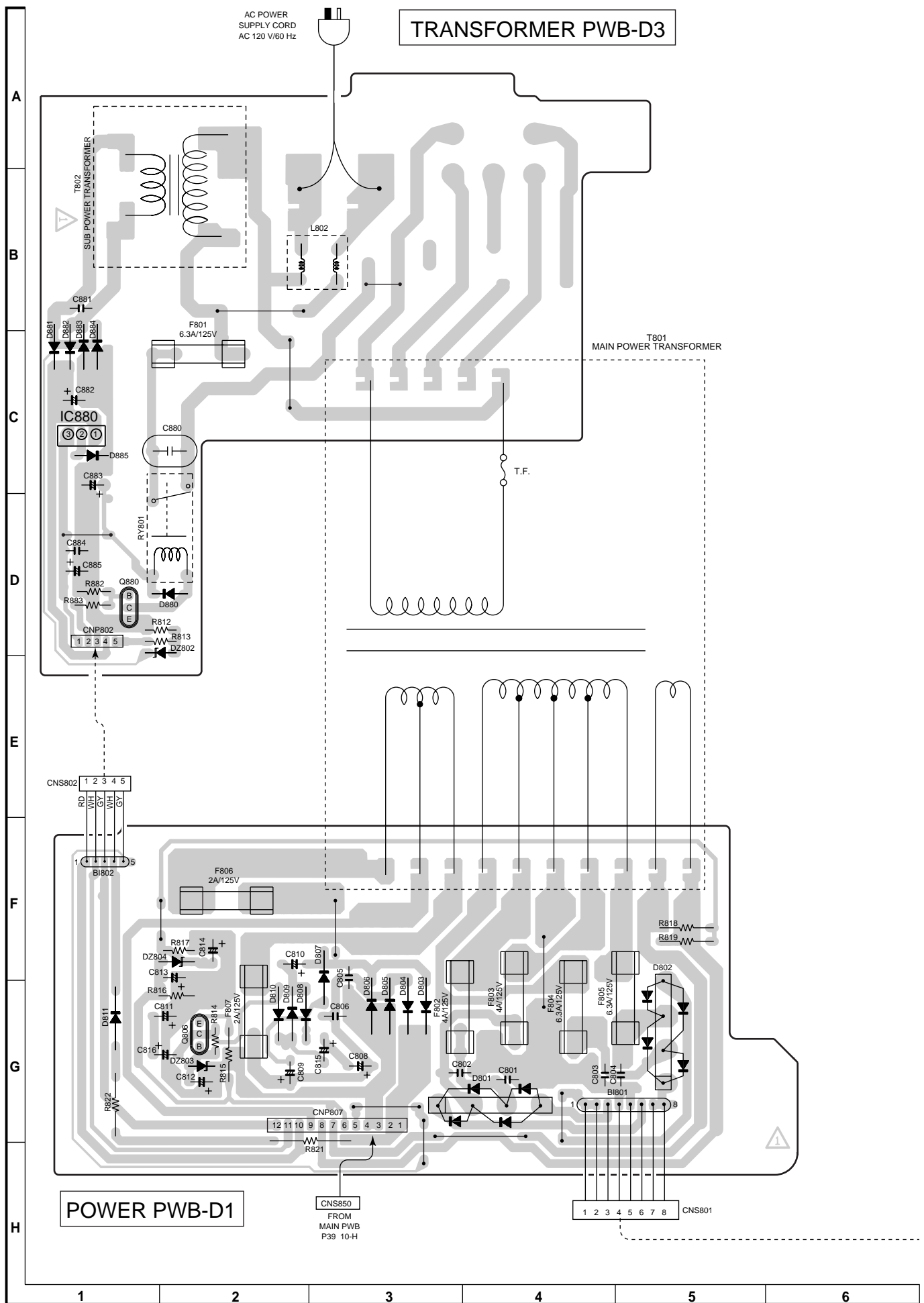


Figure 42 WIRING SIDE OF P.W.BOARD (5/10)

## AMP. A PWB-D2

COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

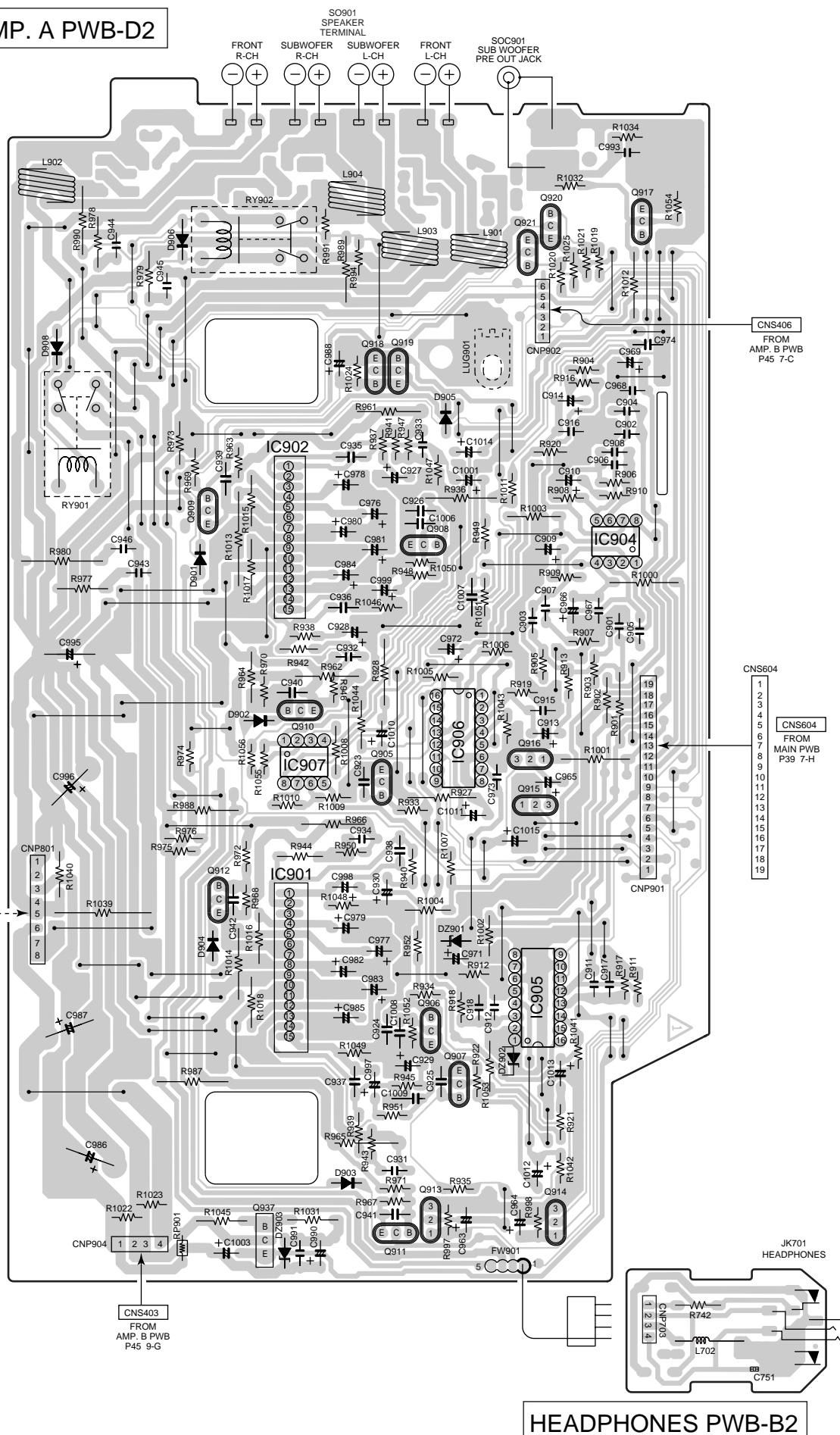
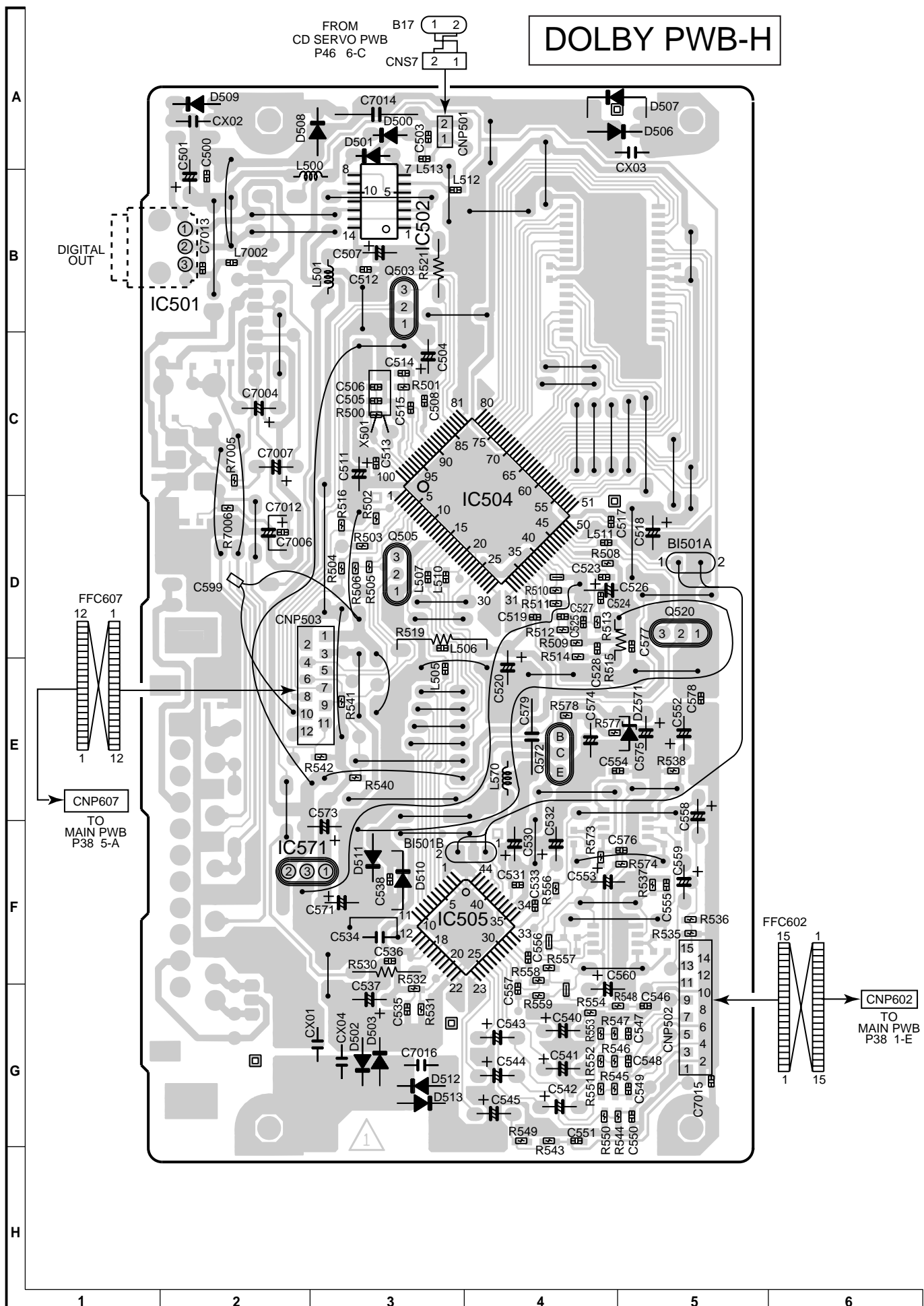


Figure 43 WIRING SIDE OF P.W.BOARD (6/10)





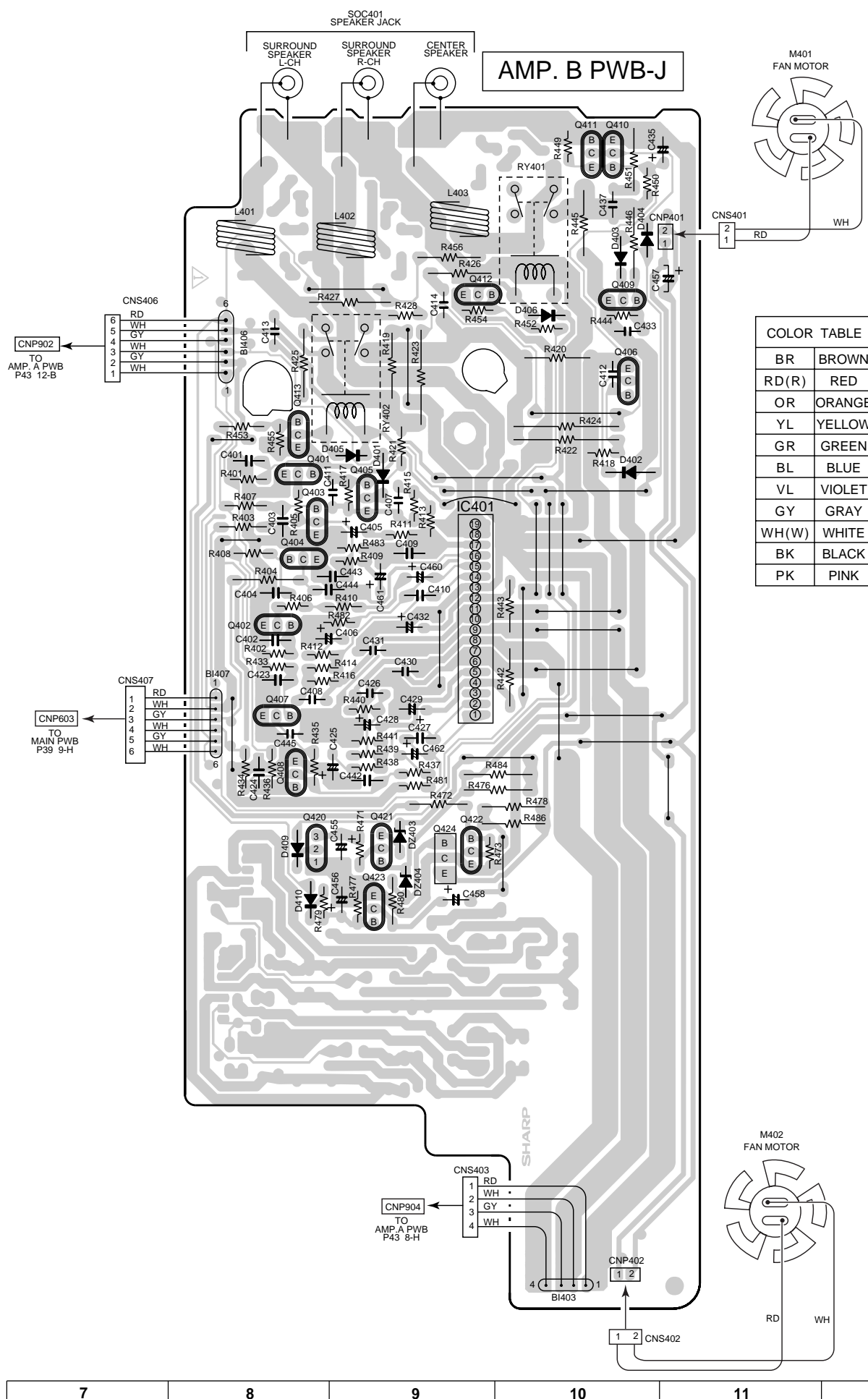


Figure 45 WIRING SIDE OF P.W.BOARD (8/10)





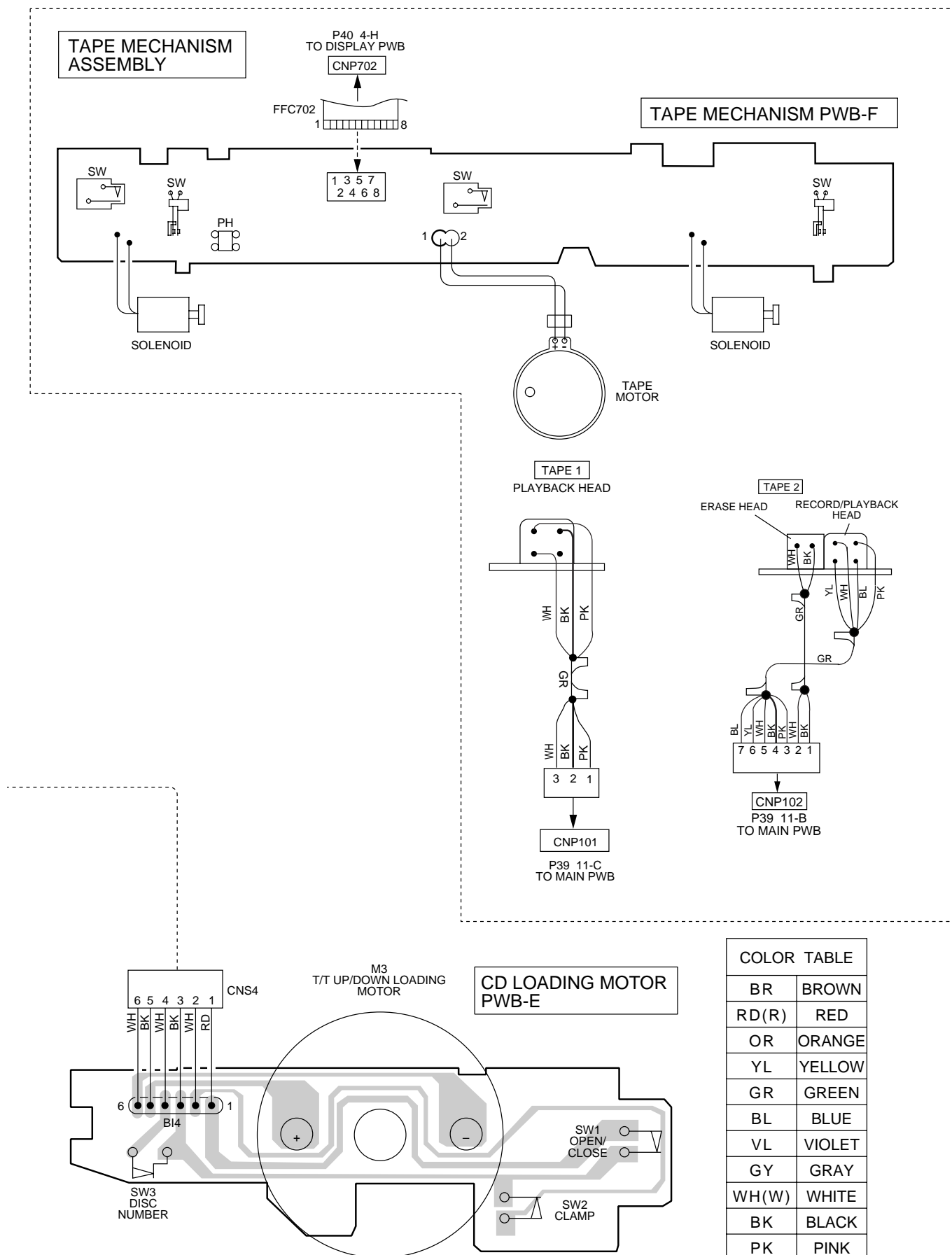


Figure 47 WIRING SIDE OF P.W.BOARD (10/10)

## VOLTAGE

IC1				IC401				IC601				IC701				IC504				IC502	
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE		
1	1.6 V	41	3.7 V	1	0 V	1	1.5 V	1	4.8 V	51	0.7 V	1	0 V	51	0 V	1	0 V	1	0 V		
2	1.0 V	42	3.7 V	2	0 V	2	0 V	2	1.5 V	52	0 V	2	0 V	52	3.2 V	2	0 V	2	0 V		
3	1.6 V	43	0 V	3	0 V	3	0 V	3	1.2 V	53	0 V	3	5.0 V	53	3.2 V	3	3.2 V	3	3.2 V		
4	1.8 V	44	0 V	4	29.3 V	4	5.0 V	4	0 V	54	0 V	4	5.0 V	54	3.2 V	4	0 V	4	0 V		
5	3.3 V	45	3.7 V	5	-28 V	5	5.0 V	5	0 V	55	4.6 V	5	6.4 V	55	3.2 V	5	0 V	5	0 V		
6	0 V	46	3.2 V	6	0 V	6	5.0 V	6	5.0 V	56	4.4 V	6	5.0 V	56	3.2 V	6	3.2 V	6	3.2 V		
7	1.6 V	47	3.2 V	7	0 V	7	5.0 V	7	0 V	57	0 V	7	3.2 V	57	3.2 V	7	0 V	7	0 V		
8	1.6 V	48	3.2 V	8	30.6 V	8	5.0 V	8	4.8 V	58	4.4 V	8	3.2 V	58	3.2 V	8	0 V	8	0 V		
9	1.6 V	49	0 V	9	30.5 V	9	5.0 V	9	4.8 V	59	1.3 V	9	3.2 V	59	3.2 V	9	0.2 V	9	0.2 V		
10	1.6 V	50	0 V	10	0 V	10	5.0 V	10	2.5 V	60	-28 V	10	3.2 V	60	3.2 V	10	3.2 V	10	3.2 V		
11	1.6 V	51	0 V	11	0 V	11	5.0 V	11	2.0 V	61	-31 V	11	3.2 V	61	3.2 V	11	0 V	11	0 V		
12	1.6 V	52	3.2 V	12	-28.5 V	12	5.0 V	12	1.1 V	62	-34 V	12	0 V	62	0 V	12	4.5 V	12	4.5 V		
13	1.5 V	53	0 V	13	0 V	13	5.0 V	13	0 V	63	-31 V	13	0 V	63	0.1 V	13	0 V	13	0 V		
14	1.5 V	54	0 V	14	0 V	14	5.0 V	14	0 V	64	-34 V	14	1.0 V	64	3.2 V	14	3.2 V	14	3.2 V		
15	1.5 V	55	0 V	15	0 V	15	5.0 V	15	0 V	65	-31.1 V	15	2.2 V	65	0 V						
16	1.5 V	56	0 V	16	0 V	16	5.0 V	16	3.3 V	66	-31.1 V	16	0 V	66	0 V						
17	0.8 V	57	0 V	17	0 V	17	5.0 V	17	3.2 V	67	-36.8 V	17	0 V	67	0 V						
18	3.2 V	58	3.2 V	18	0 V	18	5.0 V	18	4.8 V	68	-31.1 V	18	0 V	68	0 V						
19	0 V	59	0 V	19	0 V	19	5.0 V	19	0 V	69	-19.6 V	19	0 V	69	0 V						
20	1.6 V	60	0 V	20	5.0 V	20	5.0 V	20	0 V	70	-33.8 V	20	0 V	70	3.1 V						
21	1.6 V	61	0 V	21	5.0 V	21	5.0 V	21	5.0 V	71	-33.7 V	21	0 V	71	3.2 V						
22	1.6 V	62	4.7 V	22	5.0 V	22	5.0 V	22	0 V	72	-33.8 V	22	2.6 V	72	0 V						
23	1.6 V	63	0 V	23	10.0 V	23	10.0 V	23	0 V	73	-22.4 V	23	0 V	73	3.1 V						
24	0 V	64	4.9 V	24	0.4 V	24	0.4 V	24	5.0 V	74	-22.2 V	24	3.2 V	74	3.1 V						
25	0 V	65	4.9 V					25	0 V	75	-31.0 V	25	1.0 V	75	3.2 V						
26	3.2 V	66	4.9 V					26	5.0 V	76	-25.3 V	26	2.2 V	76	0.1 V						
27	0 V	67	0 V					27	0 V	77	-22.6 V	27	3.2 V	77	3.2 V						
28	0 V	68	4.9 V					28	0 V	78	-22.6 V	28	3.2 V	78	3.1 V						
29	0 V	69	0 V					29	0 V	79	4.8 V	29	0 V	79	0.1 V						
30	0 V	70	0 V					30	4.4 V	80	-36.7 V	30	0 V	80	0 V						
31	0 V	71	0 V					31	4.5 V	81	-19.5 V	31	0 V	81	0 V						
32	0 V	72	0 V					32	5.6 V	82	-36.2 V	32	3.2 V	82	3.2 V						
33	0 V	73	0 V					33	0 V	83	-26.4 V	33	3.2 V	83	0 V						
34	0 V	74	0 V					34	5.6 V	84	-28.3 V	34	3.2 V	84	0 V						
35	1.6 V	75	0 V					35	1.1 V	85	-19.4 V	35	0 V	85	0 V						
36	0 V	76	3.2 V					36	5.6 V	86	-31.3 V	36	3.2 V	86	0 V						
37	0 V	77	3.2 V					37	5.0 V	87	-24 V	37	1.5 V	87	0 V						
38	3.2 V	78	3.2 V					38	0 V	88	-24 V	38	3.2 V	88	0 V						
39	3.2 V	79	0 V					39	1.1 V	89	-24 V	39	3.2 V	89	0 V						
40	0 V	80	3.2 V					40	6.0 V	90	-24 V	40	1.5 V	90	3.2 V						
								41	4.8 V	91	-24 V	41	3.2 V	91	1.0 V						
								42	4.8 V	92	-24 V	42	3.2 V	92	3.2 V						
								43	5.6 V	93	-25 V	43	1.5 V	93	3.2 V						
								44	5.0 V	94	-25 V	44	3.2 V	94	0 V						
								45	0 V	95	-25 V	45	0 V	95	0 V						
								46	4.8 V	96	-25 V	46	0 V	96	0 V						
								47	5.0 V	97	-25 V	47	1.9 V	97	0 V						
								48	0 V	98	-25 V	48	0 V	98	2.4 V						
								49	0 V	99	-25 V	49	0 V	99	1.3 V						
								50	0 V	100	-25 V	50	3.2 V	100	3.2 V						

IC571		Q503		Q505		IC605,606,607		IC505	
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	5.0 V	1	0 V	1	0 V	1	0 V	1	0 V
2	3.2 V	2	4.9 V	2	3.2 V	2	0 V	2	0 V
3	0 V	3	0 V	3	0 V	3	0 V	3	0 V

IC101		IC302		IC303		IC602		IC902		Q914		Q915	
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	0 V	1	2.2 V	1	2.1 V	1	0 V	1	-0.2 V	1	0.3 V	1	0 V
2	0 V	2	2.2 V	2	4.5 V	2	0 V	2	-0.2 V	2	0 V	2	4.9 V
3	0.5 V	3	0 V	3	2.1 V	3	0 V	3	0 V	3	0 V	3	0 V
4	2.0 V	4	4.4 V	4	2.1 V	4	0 V	4	35.4 V				
5	0.9 V	5	0.4 V	5	0 V	5	7.0 V	5	-33.7 V				
6	1.3 V	6	4.5 V	6	4.5 V	6	0 V	6	0 V				
7	0 V	7	0 V	7	4.5 V	7	0 V	7	0 V				
8	0.5 V	8	3.3 V	8	3.4 V	8	0 V	8	36.0 V				
9	3.5 V	9	4.3 V	9	4.5 V	9	0 V	9	-35.7 V				
10	3.4 V	10	3.4 V	10	4.0 V	10	0 V	10	0 V				
11	4.6 V	11	4.6 V	11	3.2 V	11	0 V	11	0 V				
12	0 V	12	0 V	12	3.3 V	12	0 V	12	-35.2 V				
13	4.6 V	13	4.6 V	13	3.4 V	13	0 V	13	0 V				
14	0 V	14	0 V	14	1.2 V	14	0 V	14	-0.2 V				
15	0 V	15	0 V	15	1.3 V	15	0 V	15	0 V				
16	2.3 V	16	2.3 V	16	2.1 V	16	0 V	16	0 V				
17	4.6 V	17	4.6 V	17	2.4 V	17	0 V	17	0 V				
18	0.8 V	18	0.8 V	18	1.7 V	18	5.0 V	18	0 V				
19	0.8 V	19	0.8 V	19	0 V	19	0 V	19	0 V				
20	2.1 V	20	2.1 V	20	0.4 V	20	0 V	20	0 V				
21	0 V	21	0 V	21	1.5 V	21	0 V	21	0 V				
22	2.6 V	22	2.6 V	22	0.3 V	22	0 V	22	0 V				
				23	4.5 V	23	0 V	23	0 V				
				24	3.0 V	24	0 V	24	0 V				

IC181		IC905		IC906		Q916		Q917		Q913	
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	0 V	1	0 V	1	0 V	1	0 V	1	0 V	1	1.5 V
2	2.0 V	2	0 V	2	0 V	2	0 V	2	0 V	2	1.4 V
3	0.4 V	3	0 V	3	0 V	3	0 V	3	0 V	3	0 V
4	0 V	4	0 V	4	0 V	4	0 V	4	0 V		
5	1.4 V	5	0 V								

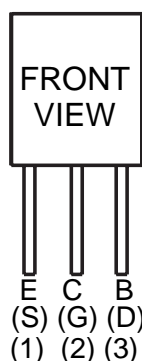
## NOTES ON SCHEMATIC DIAGRAM

- **Resistor:**  
To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- **Capacitor:**  
To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.  
(CH), (TH), (RH), (UJ): Temperature compensation  
(ML): Mylar type  
(P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section, indicates AM indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.  
( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with " $\triangle$ " (  $\square = \square = \square$  ) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

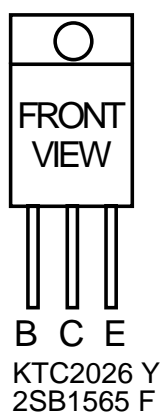
REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	CLAMP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW701	POWER	ON—OFF
SW702	CLOCK	ON—OFF
SW703	TIMER/SLEEP	ON—OFF
SW704	BYPASS	ON—OFF
SW705	NORMAL	ON—OFF
SW706	PHANTOM	ON—OFF
SW707	VIRTUAL	ON—OFF
SW708	DISC 1	ON—OFF
SW79	DISC 2	ON—OFF
SW710	DISC 3	ON—OFF
SW711	DISC SKIP	ON—OFF
SW712	OPEN/CLOSE	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW714	DIMMER	ON—OFF
SW715	X-BASS	ON—OFF
SW716	EQUALIZER	ON—OFF
SW722	CD	ON—OFF
SW723	TAPE	ON—OFF
SW724	TUNING/DOWN	ON—OFF
SW725	MEMORY SET	ON—OFF
SW726	FAST REWIND	ON—OFF
SW727	FAST FORWARD	ON—OFF
SW728	PLAY	ON—OFF
SW729	STOP	ON—OFF
SW731	REC/PAUSE	ON—OFF
SW732	TUNING/UP	ON—OFF
SW733	VIDEO	ON—OFF
SW734	TUNER	ON—OFF

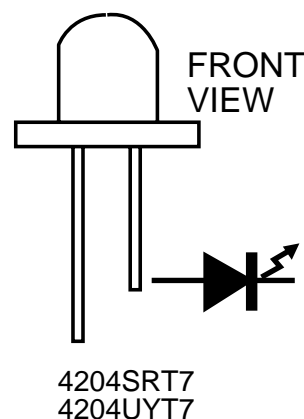
## TYPES OF TRANSISTOR AND LED



KRA107 M	KTA1046 Y
KRC102 M	KTA1273 Y
KRC104 M	KTC3203 Y
KRC107 M	KTC3199 GR
KTA1271 Y	2SA1015 GR
KTA1274 Y	2SC2878 B
KTA1266 GR	2SD468 C



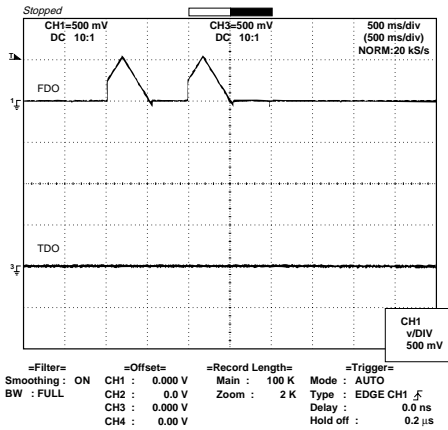
KTC2026 Y  
2SB1565 F



4204SRT7  
4204UYT7

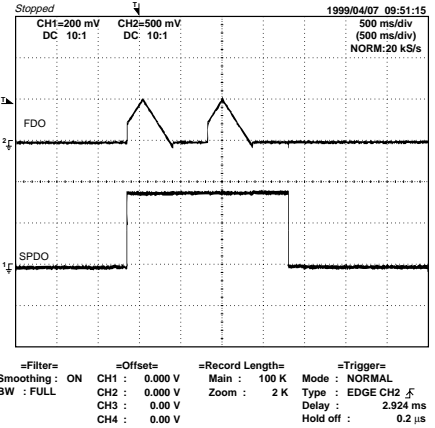
## WAVEFORMS OF CD CIRCUIT

① IC1 (21)



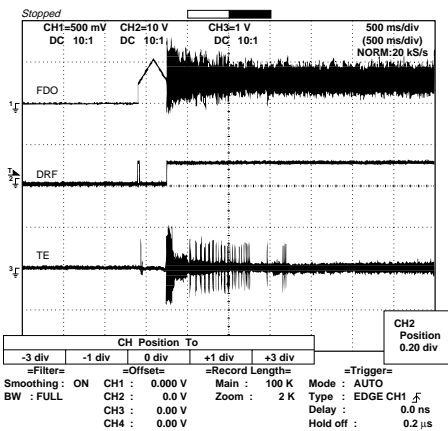
② IC1 (20)

① IC1 (21)



⑥ IC1 (22)

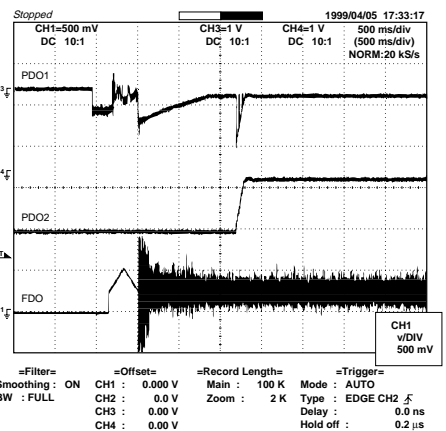
① IC1 (21)



③ IC1 (67)

④ IC1 (15)

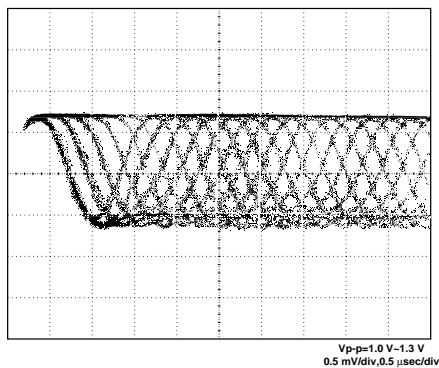
⑦ IC1 (73)



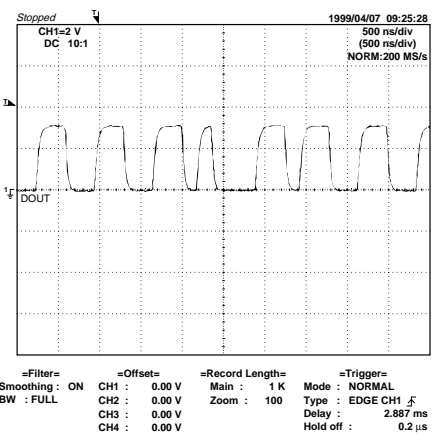
⑧ IC1 (74)

① IC1 (21)

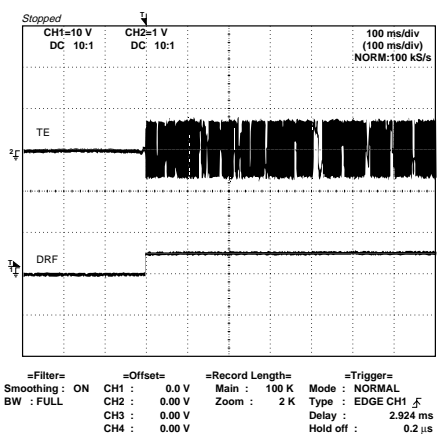
⑤ IC1 (4)



⑨ IC1 (39)

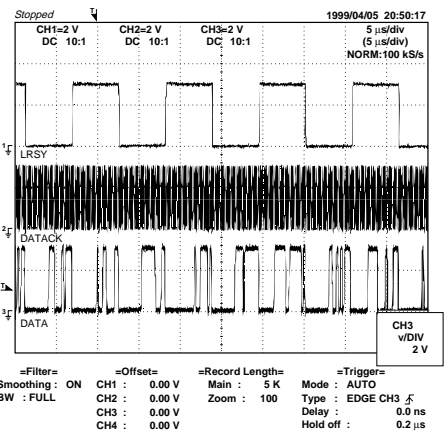


④ IC1 (15)



③ IC1 (67)

⑩ IC1 (58)



⑪ IC1 (59)

⑫ IC1 (60)

## TROUBLE SHOOTING

### When the CD does not function

When the CD section does not operate when the objective lens of the optical pickup is dirty, this section may not operate. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

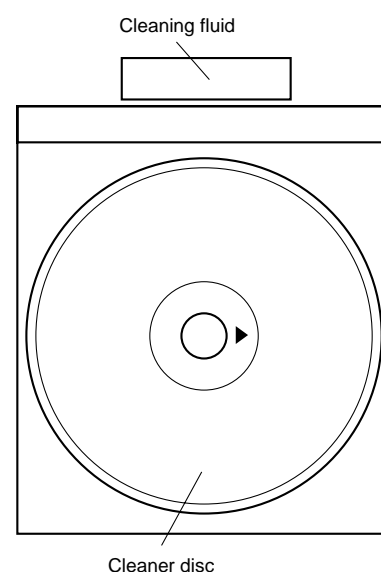
		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

#### HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it continuous to turn, press the stop button.

#### CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.



### When a CD cannot be played

#### 1. "E-CD01" is displayed.

- (1) Check the power to IC1 (LC78645EN), the presence of the clock signal (33.8688 MHz) and the status of the RESET terminal (pin 66 on IC1).
- (2) Does the pickup move to the PICKUP-IN Switch (SW4) position?

If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

#### 2. Pressing the CD operation key is accepted, but playback does not occur.

- (1) Focus-HF system check
- (2) Tracking system check
- (3) Spin system check
- (4) PLL system check
- (5) Others

(1) Focus-HF system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the OPEN/CLOSE switch (SW1) without inserting a disc, and try starting the playback operation.

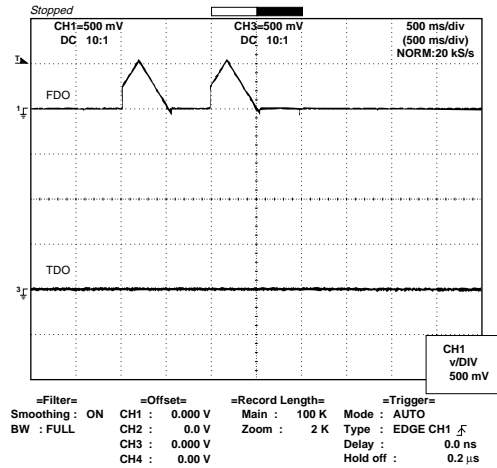


Figure 52-1

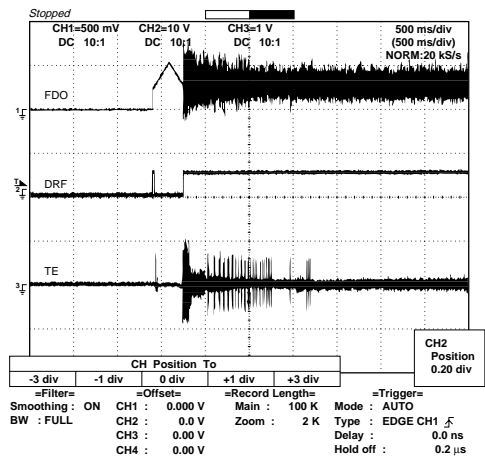
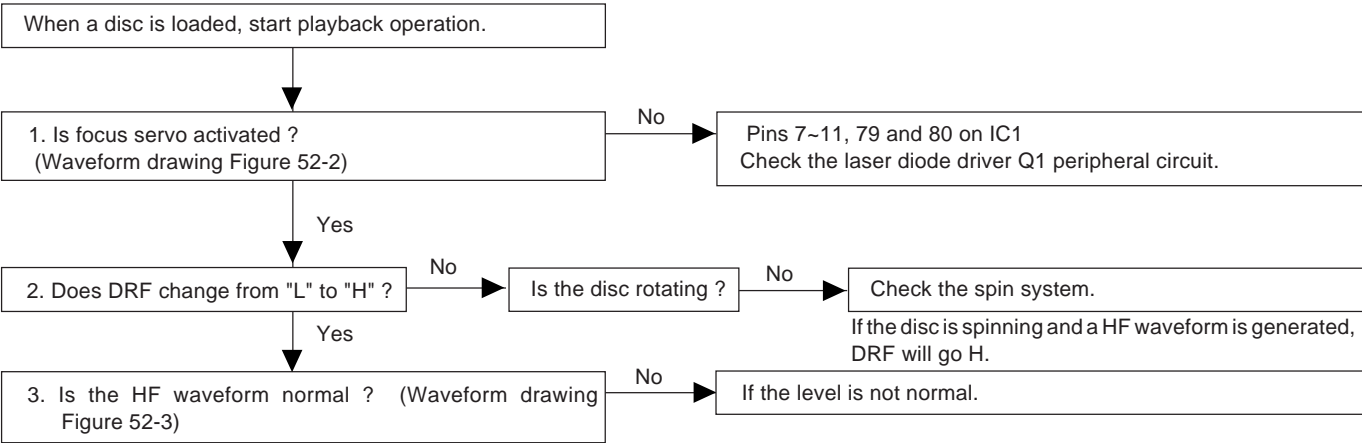
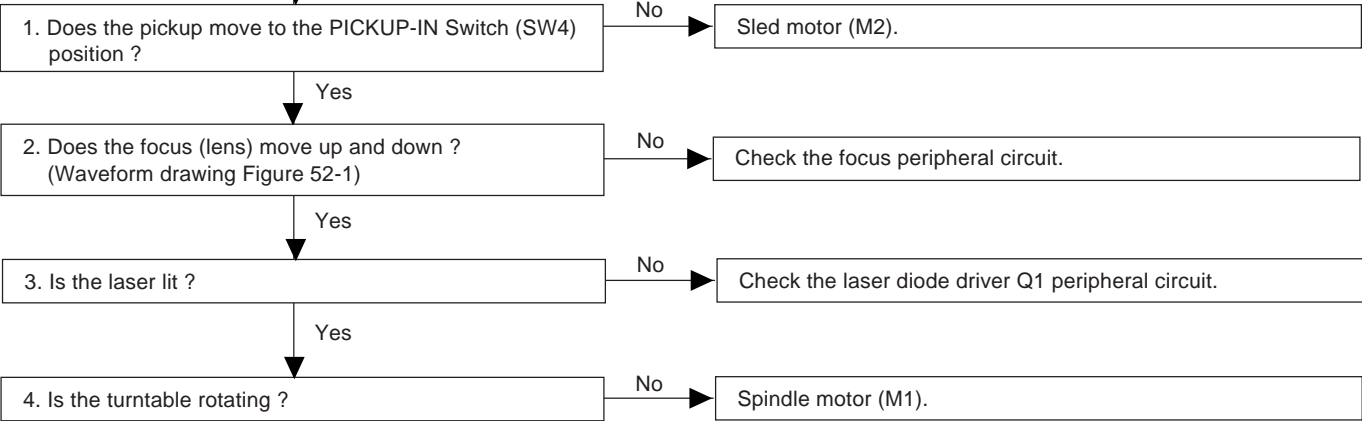


Figure 52-2

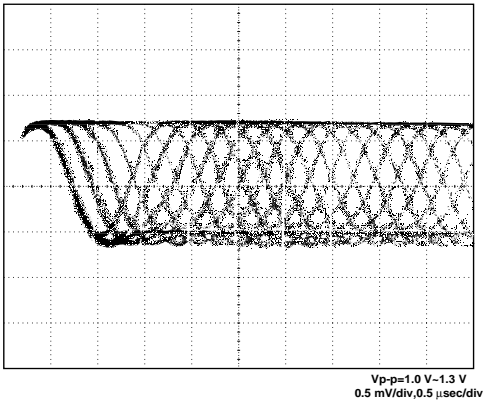


Figure 52-3

**(2) Tracking system check.**

Check the TE waveform at pin 15 on IC1.

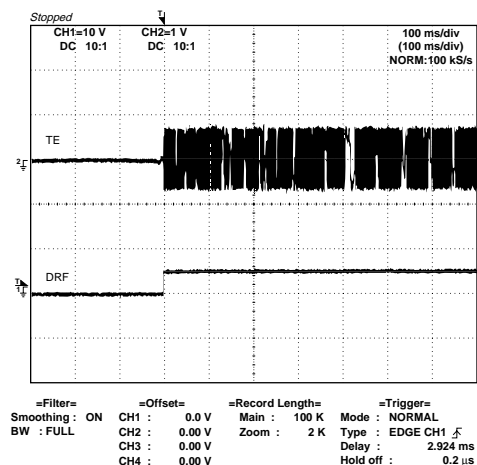
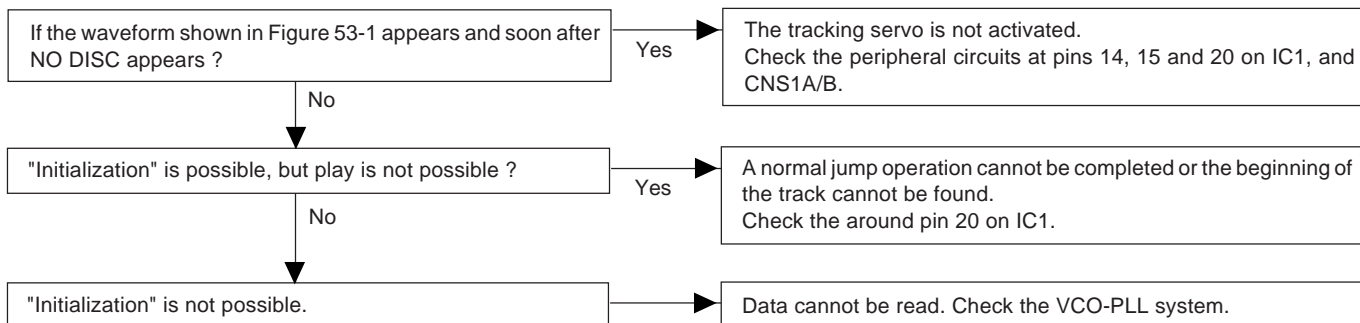


Figure 53-1

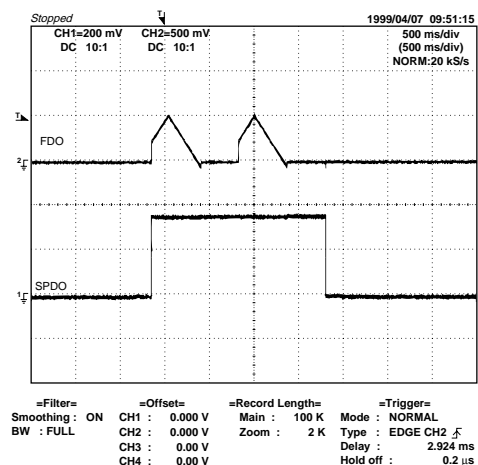
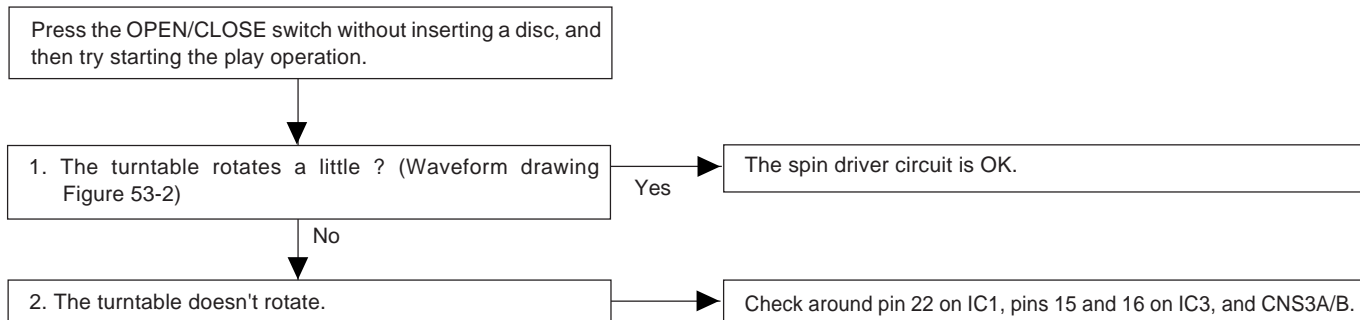
**(3) Spin system check.**

Figure 53-2



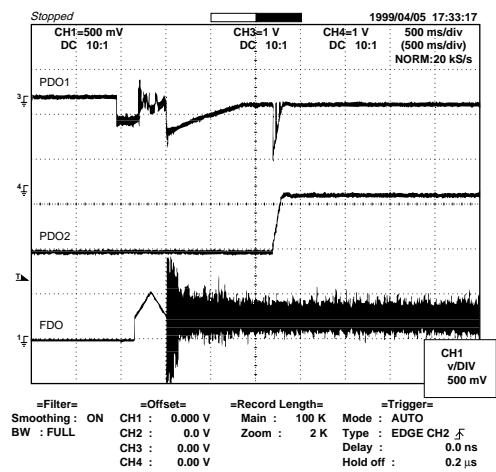
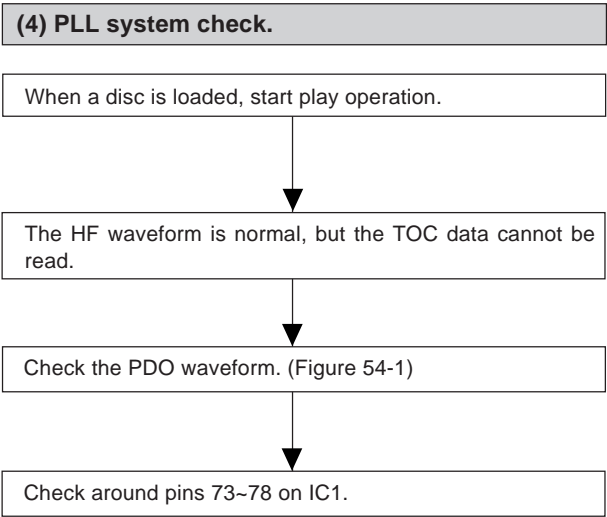


Figure 54-1

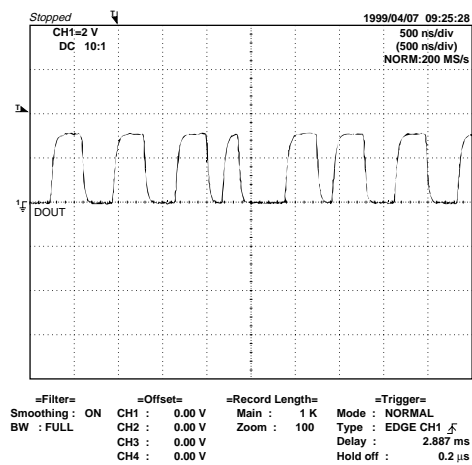
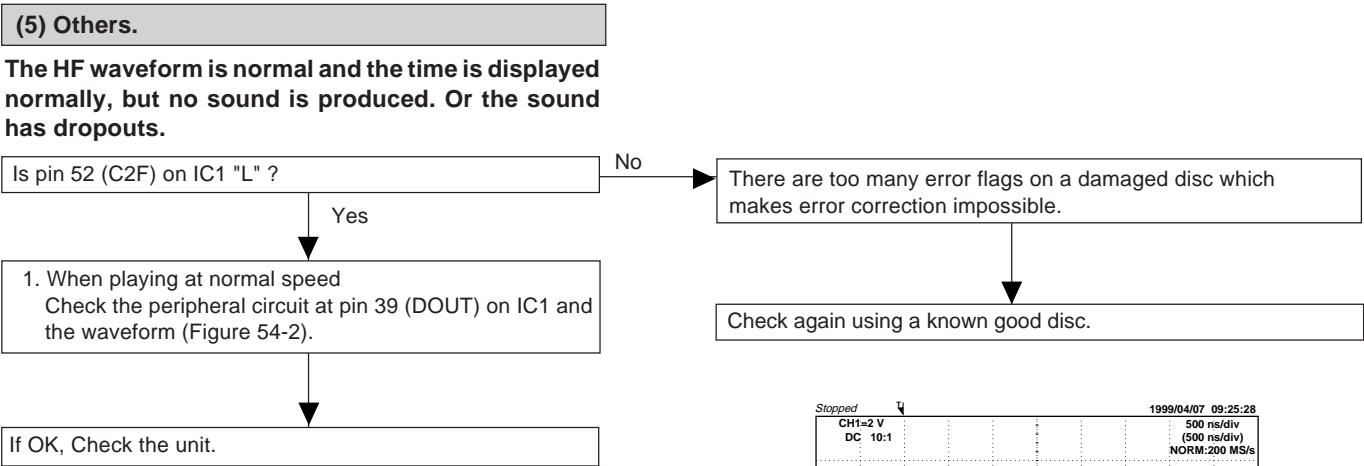


Figure 54-2

## FUNCTION TABLE OF IC

## IC1 VHiLC78645NE1: CD Servo (LC78645NE) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
1	SLC0	Output	—	For slice level control.	Control output.
2	SLCIST	Input	—		Resistor connection terminal for SLC0 output current setting.
3	EFMIN	Input	—		RF signal input terminal.
4	RF	Output	—	RF signal monitor terminal.	
5	RFVDD	Input	—	RF power terminal.	
6	RFVSS	—	—	RF earth terminal. To be connected to 0 V.	
7	FIN1	Input	—	A+C signal input terminal.	
8	FIN2	Input	—	B+D signal input terminal.	
9	TIN1	Input	—	E signal input terminal.	
10	TIN2	Input	—	F signal input terminal.	
11	VREF	Output	RFVDD/2	VREF voltage output terminal.	
12	REFI	Input	—	Reference supply setting terminal.	
13*	FE	Output	ZHI	FE signal monitor terminal.	
14	TEC	Output	—	LPF capacitor connection terminal for TE signal.	
15*	TE	Output	ZHI	TE signal monitor terminal.	
16*	RFMON	Output	ZHI	RF internal signal monitor terminal.	
17	JITTC	—	—	Capacitor connection terminal for jitter detection.	
18	ADAVDD	Input	—	Power terminal for servo A/D, D/A.	
19	ADAVSS	—	—	Earth terminal for servo A/D, D/A. To be connected to 0 V.	
20	TD0	Output	ADAVDD/2	Output terminal for tracking control. D/A output.	
21	FD0	Output	ADAVDD/2	Output terminal for focus control. D/A output.	
22	SPD0	Output	ADAVDD/2	Output terminal for spindle control. D/A output.	
23	SLD0	Output	ADAVDD/2	Output terminal for sled control. D/A output.	
24*	GPDAC	Output	ADAVDD/2	Servo D/A general-purpose output terminal.	
25	CONT4	Input/Output	Input Mode	General-purpose I/O terminal 4.	Controlled by commands from the microcomputer. When not used, set them as input terminals and connect to 0 V, or set them as output terminals and leave open.
26	CONT5	Input/Output	Input Mode	General-purpose I/O terminal 5.	
27*	SBCK/CONT6	Input/Output	Input Mode	General-purpose I/O terminal 6 or Subcode reading clock input terminal.	
28	SBCK/FG	Input	—	Subcode reading clock input terminal/FG signal input terminal/external emphasis setting terminal. Terminal functions are set by commands. When not used, connect to 0 V.	
29*	DEFECT	Output	L	Defect terminal.	
30*	V/*P	Output	H	Auto switching monitor output terminal for rough servo phase control. “H”: rough servo, “L”: phase servo.	
31*	FSEQ	Output	L	Sync signal detection output terminal. The status changes to “H” when the sync signal detected in EFM and the sync signal of internal generation are identified.	
32*	MONI1	Output	L	Internal signal monitor terminal 1.	
33*	MONI2	Output	L	Internal signal monitor terminal 2.	
34*	MONI3	Output	L	Internal signal monitor terminal 3.	
35*	MONI4	Output	L	Internal signal monitor terminal 4.	
36*	MONI5	Output	L	Internal signal monitor terminal 5.	
37	VSS	—	—	Digital system earth terminal. To be connected to 0 V.	
38	VDD	Input	—	Digital system power terminal.	
39	DOUT	Output	L	Digital OUT output terminal. (EIAJ format)	
40	TEST	Input	L	Input terminal for test. To be connected to 0 V.	
41	LVDD	Input	—	Left channel D/A converter	Power supply for Left channel.
42*	LCH0	Output	LVDD/2		Left channel output.
43	LVSS	—	—		GND for Left channel. Must be connected to 0 V.

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## CD-DD4500

### IC1 VHiLC78645NE1: CD Servo (LC78645NE) (2/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
44	RVSS	—	—	Right channel D/A converter	GND for Right channel. Must be connected to 0 V.
45*	RCHO	Output	LVDD /2		Right channel output.
46	RVDD	Input	—		Power supply for Right channel.
47	XVDD	Input	—	Crystal Oscillator	Power supply for crystal oscillator.
48	XOUT	Output	—		Connected for the 33.8688 MHz crystal oscillator ciement.
49	XIN	Input	—		
50	FSX/16MIN	Input/Output	Input	7.35 kHz Synchronization signal monitor port. or Clock input port for Digital filter & D/A	
51	XVSS	—	—	Crystal Oscillator	GND for crystal oscillator. Must be connected to 0 V.
52*	C2F	Output	H	C2 FLAG monitor port.	
53*	EFLG	Output	L	C1, C2 error corrected monitor port.	
54*	16MOUT	Output	Clock	16.9344 MHz output port.	
55	ASLRCK	Input	—	Anti-shock	Word clock input port. (If this port does not use, must be connect to 0 V.)
56	ASDACK	Input	—		Bit clock input port. (If this port does not use, must be connect to 0 V.)
57	ASDFIN	Input	—		Left/Right channel data input port. (If this port does not use, must be connect to 0 V.)
58*	LRSY	Output	L	Digital data	Word clock output port.
59*	DATACK	Output	L		Bit clock output port.
60*	DATA	Output	L		Left/Right channel data output port.
61	CE	Input	—	Microcomputer Interface	Chip enable signal input port.
62	CL	Input	—		Data transfer clock input port.
63	DI	Input	—		Data input port.
64	DO	Output	(H)		Data output port. (N-ch. open drain output.)
65	*WRQ	Output	H		Interruption signal output.
66	*RES	Input	—	Chip reset signal input port. This port must be set LOW after first applied power on.	
67	DRF	Output	L	Focus detection output port.	
68	VDD5	Input	—	Power supply for Microprocessor.	
69	VSS	—	—	GND for digital circuit. Must be connected to 0 V.	
70	CONT3	Input/Output	Input	General purpose port 1.	Controlled with serial data command from micro-computer. When not used, General purpose input/output terminal 7. set it as the input terminal and open it by connecting to 0 V, or set it as the output terminal and open it.
71	CONT2	Input/Output	Input	General purpose port 2.	
72*	CONT1	Input/Output	Input	General purpose port 3.	
73	PDO1	Output	—	PLL	Internal VCO control phase comparator output port 1.
74	PDO2	Output	Input		Internal VCO control phase comparator output port 2.
75	VVSS	—	—		GND for internal VCO.Must be connected to 0 V.
76	PCKIST	Input	—		PDO output current adjustment resistor connection port.
77	VVDD	Input	—		Power supply for internal VCO.
78	FR	Input	—		VCO frequency range adjustment port.
79	LDS	Input	—	LASER power detected signal input port.	
80	LDD	Output	—	LASER power control signal output port.	

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

Be sure to supply the same potential to each power terminal. (VVDD, ADAVDD, VDD, LVDD, RVDD, XVDD)

Terminal witch is controlled by the power terminal (VDD5 V) for a microcomputer interface :

CE (61 pin), CL (62 pin), DI (63 pin), DO (64 pin), WRQ (65 pin), RES (66 pin), DRF (67 pin)

## IC1 VHiLC78645NE1: CD Servo (LC78645NE)

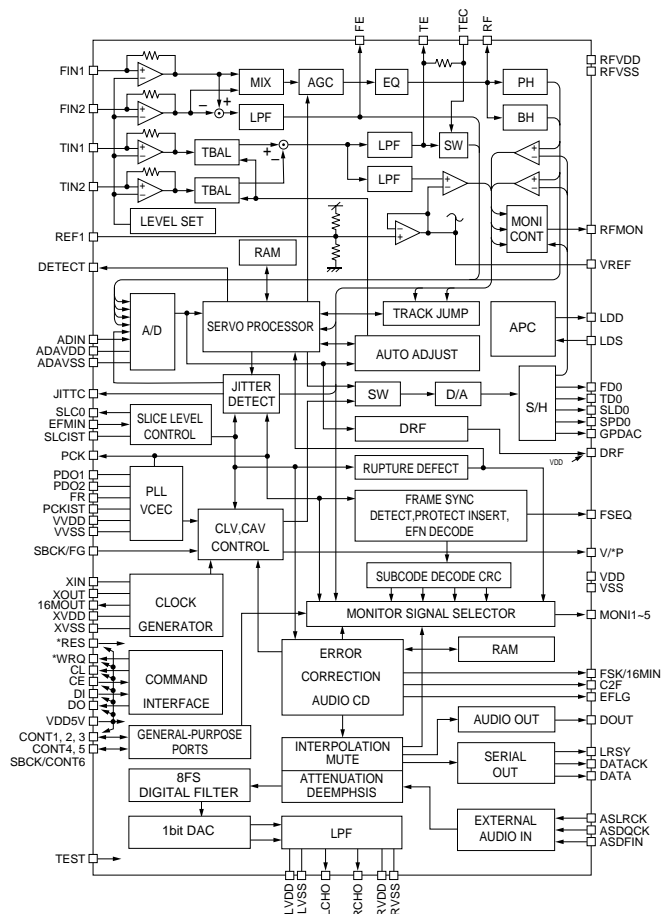
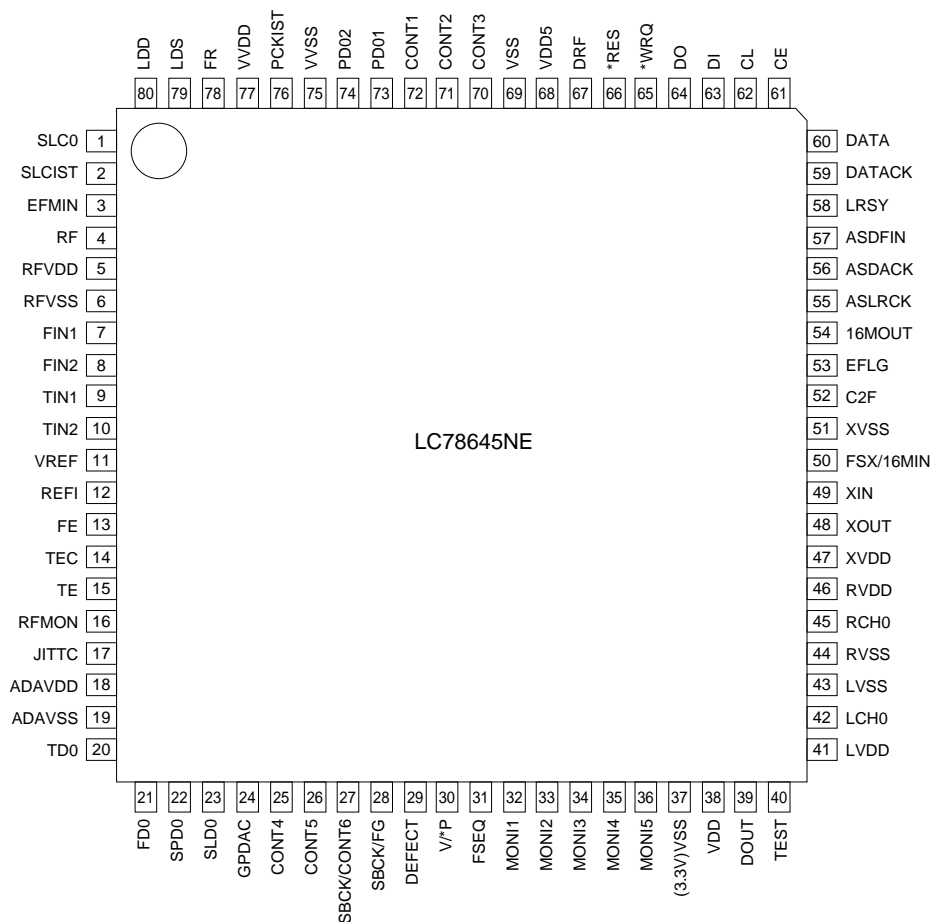


Figure 57 BLOCK DIAGRAM OF IC

## CD-DD4500

### IC504 RH-iX0443AWZZ: Dolby Decoder (IX0443AW) (1/2)

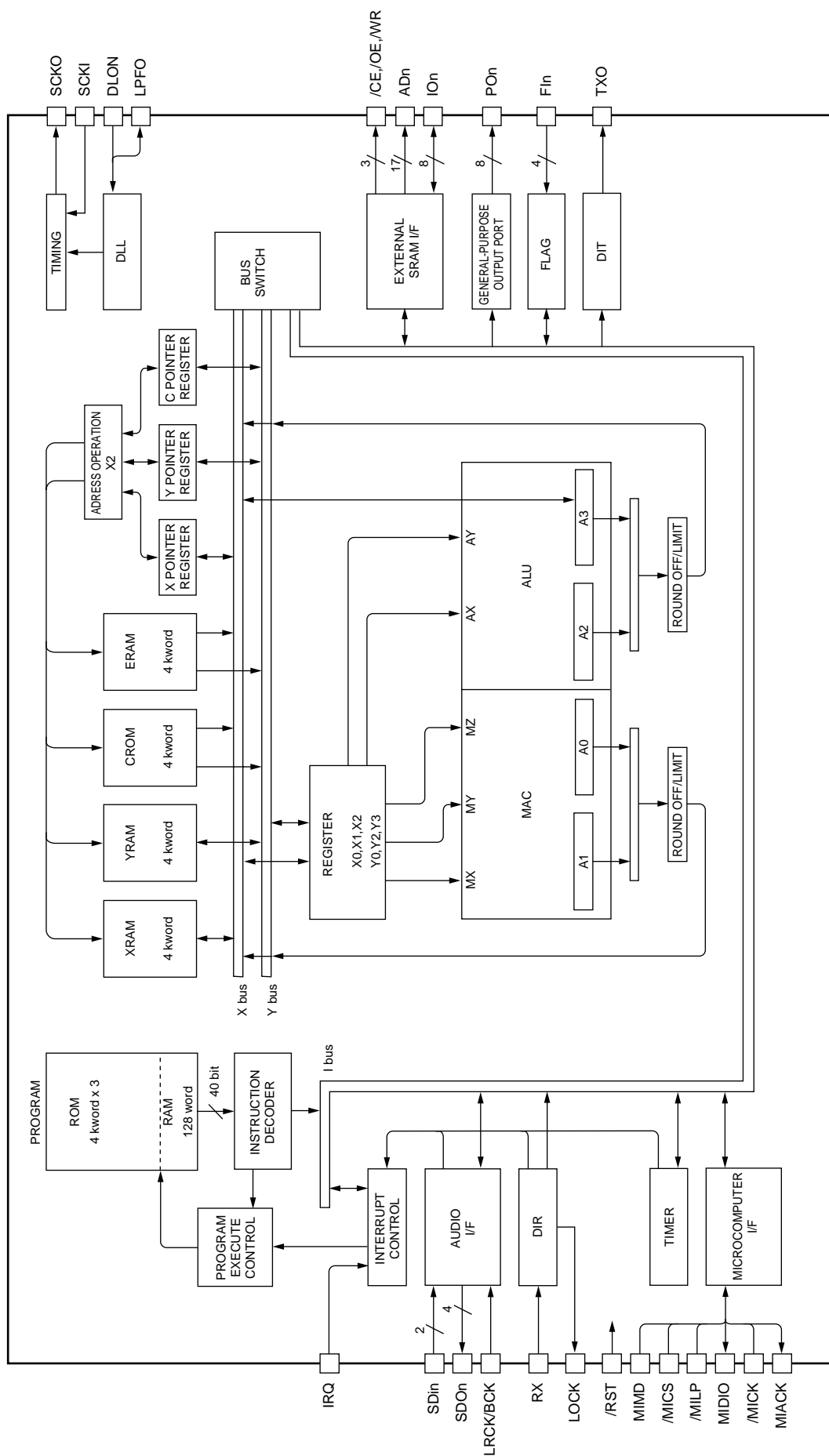
Pin No.	Terminal Name	Input/Output	Function
1	RST	Input	Hardware reset input terminal. (L: reset, R: normal operation)
2*	MIMD	Input	Microcomputer I/F mode select input terminal. (L: serial, H: I2C bus)
3	MICS	Input	Microcomputer I/F chip select input terminal.
4	MILP	Input	Microcomputer I/F latch pulse input.
5	MIDIO	Input/Output	Microcomputer I/F data input/output terminal.
6	MICK	Input	Microcomputer I/F clock input terminal.
7	MIACK	Output	Microcomputer I/F acknowledge output terminal.
8*	FI0	Input	Flag input terminal 0.
9*	FI1	Input	Flag input terminal 1.
10*	FI2	Input	Flag input terminal 2.
11*	FI3	Input	Flag input terminal 3.
12*	IRQ	Input	Interrupt input terminal.
13	VSS	—	Digital ground terminal.
14	LRCKA	Input	Audio I/F LR clock input terminal A.
15	BCKA	Input	Audio I/F bit clock input terminal A.
16	SDO0	Output	Audio I/F data output terminal 0.
17	SDO1	Output	Audio I/F data output terminal 1.
18	SDO2	Output	Audio I/F data output terminal 2.
19*	SDO3	Output	Audio I/F data output terminal 3.
20	LRCKB	Input	Audio I/F LR clock input terminal B.
21	BCKB	Input	Audio I/F bit clock input terminal B.
22	SDI0	Input	Audio I/F data input terminal 0.
23	SDI1	Input	Audio I/F data input terminal 1.
24	VDD	Input	Digital power supply terminal.
25	LRCKOA	Output	Audio I/F LR clock output terminal A.
26	BCKOA	Output	Audio I/F bit clock output terminal A.
27	TEST0	Input	Test input terminal 0. (L: test, H: normal operation)
28	TEST1	Input	Test input terminal 1. (L: test, H: normal operation)
29*	LRCKOB	Output	Audio I/F LR clock output terminal B.
30*	BCKOB	Output	Audio I/F bit clock output terminal B.
31*	TXO	Output	SPDIF output terminal.
32	TEST2	Input	Test input terminal 2. (L: test, H: normal operation)
33	TEST3	Input	Test input terminal 3. (L: test, H: normal operation)
34	RX	Input	SPDIF input terminal.
35	VSS	—	Digital ground terminal.
36	TSTSUB0	Input	Test sub input terminal 0. (L: test, H: normal operation)
37	FCONT	Output	VCO frequency control output terminal.
38	TSTSUB1	Input	Test sub input terminal 1. (L: test, H: normal operation)
39	TSTSUB2	Input	Test sub input terminal 2. (L: test, H: normal operation)
40	PDO	Output	Phase error signal output terminal.
41	VDDA	Input	Analog power supply terminal.
42*	PLON	Input	Clock select input terminal. (L: external clock, H: VCO clock)
43	AMPI	Input	Amplifier input terminal for LPF.
44	AMPO	Output	Amplifier output terminal for LPF.
45	CKI	Input	External clock input terminal.
46	VSSA	—	Analog ground terminal.
47	CKO	Output	DIR clock output terminal.
48	LOCK	Output	VCO lock detection output terminal.
49	VSS	—	Digital ground terminal.
50	WR	Output	External SRAM write signal output terminal.
51	OE	Output	External SRAM output enable signal output terminal.

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## IC504 RH-iX0443AWZZ: Dolby Decoder (IX0443AW) (2/2)

Pin No.	Terminal Name	Input/Output	Function		
52	$\overline{CE}$	Output	External SRAM chip enable signal output terminal.		
53	VDD	Input	Digital power supply terminal.		
54	IO7	Input/Output	External SRAM data I/O terminal 7.		
55	IO6	Input/Output	External SRAM data I/O terminal 6.		
56	IO5	Input/Output	External SRAM data I/O terminal 5.		
57	IO4	Input/Output	External SRAM data I/O terminal 4.		
58	IO3	Input/Output	External SRAM data I/O terminal 3.		
59	IO2	Input/Output	External SRAM data I/O terminal 2.		
60	IO1	Input/Output	External SRAM data I/O terminal 1.		
61	IO0	Input/Output	External SRAM data I/O terminal 0.		
62	VSS	—	Digital ground terminal.		
63	AD0	Output	External SRAM address output terminal 0.		
64	AD1	Output	External SRAM address output terminal 1.		
65	AD2	Output	External SRAM address output terminal 2.		
66	AD3	Output	External SRAM address output terminal 3.		
67	AD4	Output	External SRAM address output terminal 4.		
68	AD5	Output	External SRAM address output terminal 5.		
69	AD6	Output	External SRAM address output terminal 6.		
70	AD7	Output	External SRAM address output terminal 7.		
71	VDD	Input	Digital power supply terminal.		
72	AD8	Output	External SRAM address output terminal 8.		
73	AD9	Output	External SRAM address output terminal 9.		
74	AD10	Output	External SRAM address output terminal 10.		
75	AD11	Output	External SRAM address output terminal 11.		
76	AD12	Output	External SRAM address output terminal 12.		
77	AD13	Output	External SRAM address output terminal 13.		
78	AD14	Output	External SRAM address output terminal 14.		
79	AD15	Output	External SRAM address output terminal 15.		
80	AD16	Output	External SRAM address output terminal 16.		
81	VSS	—	Digital ground terminal.		
82	PO0	Output	General-purpose output terminal 0.		
83	PO1	Output	General-purpose output terminal 1.		
84	PO2	Output	General-purpose output terminal 2.		
85	PO3	Output	General-purpose output terminal 3.		
86*	PO4	Output	General-purpose output terminal 4.		
87*	PO5	Output	General-purpose output terminal 5.		
88*	PO6	Output	General-purpose output terminal 6.		
89*	PO7	Output	General-purpose output terminal 7.		
90	VDDDL	Input	Power supply terminal for DLL.		
91	LPFO	Output	LPF output terminal for DLL.		
92*	DLON	Input	DLCKS terminal	DLON terminal	DLL clock setting
93*	DLCKS	Input	"L"	"L"	SCKI input. (DLL circuit off)
			"L"	"H"	Quadruple of XI clock
			"H"	"L"	Triple of XI clock
			"H"	"H"	Sextuple of XI clock
94	SCKO	Output	ASP clock output terminal.		
95	VSSDL	—	Ground terminal for DLL.		
96	SCKI	Input	External system clock input terminal.		
97	VSSX	—	Ground terminal for crystal oscillation circuit.		
98	XO	Output	Crystal oscillation output terminal.		
99	XI	Input	Crystal oscillation input terminal.		
100	VDDX	Input	Power supply terminal for crystal oscillation circuit.		

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.





## IC505 RH-iX0454AWZZ: 6-CH CODEC IC (AK4527BVQ) (1/2)

Pin No.	Terminal Name	Input/Output	Function
1	SDOS	Input	SDTO source select pin. (Note 1) “L”: internal ADC output, “H”: I2C DAUX input
2	I2C	Input	Serial control mode select pin. “L”: 3-wire serial, “H”: I2C bus
3	SMUTE	Input	Software mute pin. (Note 1) Software mute is started with “H” and canceled with “L”.
4	BICK	Input	Audio serial data clock pin.
5	LRCK	Input	Input channel clock pin.
6	SDTI1	Input	DAC1 audio serial data input pin.
7	SDTI2	Input	DAC2 audio serial data input pin.
8	SDTI3	Input	DAC3 audio serial data input pin.
9	SDTO	Output	Audio serial data output pin.
10	DAUX	Input	Auxiliary audio serial data input pin.
11	DFS	Input	Double-speed sampling mode pin. (Note 1) “L”: normal speed, “H”: double speed
12*	N.C.	—	Not connect.
13	DZFE	Input	Zero input detection function enable pin. “L”: mode 7 (disable) in parallel mode, selectable with DZFM2-0 bit in serial mode. “H”: mode 0 (output from DZF1 with AND of 6 ch)
14	TVDD	Input	Power supply pin for output buffer, 2.7 V - 5.5 V.
15	DVDD	Input	Digital power supply pin, 4.5 V - 5.5 V.
16	DVSS	—	Digital ground pin, 0 V.
17	PDN	Input	Power down & reset pin. When this pin is switched to “L”, it enters the power down state and the register is initialized. Reset it with the PDN pin if P/S and CAD0-1 are changed.
18	TST	Input	Test pin. Connect it to DVSS.
19*	N.C.	—	Not connect.
20	ADIF	Input	Analog input type select pin. “H”: differential input, “L”: single end input
21	CAD1	Input	Chip address 1 pin.
22	CAD0	Input	Chip address 0 pin.
23	LOUT3	Output	DAC3 L channel analog output pin.
24	ROUT3	Output	DAC3 R channel analog output pin.
25	LOUT2	Output	DAC2 L channel analog output pin.
26	ROUT2	Output	DAC2 R channel analog output pin.
27	LOUT1	Output	DAC1 L channel analog output pin.
28	ROUT1	Output	DAC1 R channel analog output pin.
29	LIN-	Input	L channel analog inversion input pin.
30	LIN+	Input	L channel analog non-inversion pin.
31	RIN-	Input	R channel analog inversion input pin.
32	RIN+	Input	R channel analog non-inversion pin.
33*	DZF2	Output	Zero input detection 2 pin. (Note 2) If the group 2 input data has been “0” for 8,192 consecutive times or the RSTN bit is “0”, it changes to “H”.
	OVF	Output	Analog input overflow detection pin. (Note 3) It changes to “H” when the analog input to L-ch or R-ch overflows.
34	VCOM	Output	Common voltage output pin, AVDD/2 Mount a capacitor of large capacity (approx. 2.2 $\mu$ F) to remove power source noise.
35	VREFH	Input	Reference voltage input pin, AVDD.
36	AVDD	Input	Analog power supply pin, 4.5 V - 5.5 V.
37	AVSS	—	Analog ground pin, 0 V.
38*	DZF1	Output	Zero input detection 1 pin. (Note 2) If the group 1 input data has been “0” for 8,192 consecutive times or the RSTN bit is “0”, it changes to “H”.
39*	MCLK	Input	Master clock input pin.
40	P/S	Input	Parallel/serial select pin. “L”: serial control mode, “H”: parallel control mode

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

## IC505 RH-IX0454AWZZ: 6-CH CODEC IC (AK4527BVQ) (2/2)

Pin No.	Terminal Name	Input/Output	Function
41	DIF0	Input	Audio data interface format 0 pin. (in parallel control mode)
	CSN	Input	Chip select pin. (in 3-wire serial control mode) Connect it to DVDD in I2C bus control mode.
42	DIF1	Input	Audio data interface format 1 pin. (in parallel control mode)
	SCL/CCLK	Input	Control data clock pin. (in serial control mode) I2C = "L": CCLK (3-wire serial), I2C = "H": SCL (I2C bus)
43	LOOP0	Input	Loopback mode 0 pin. (in parallel control mode) Enables digital loopback from ADC to all DACs.
	SDA/CDTI	Input/Output	Control data input pin (in serial control mode) I2C = "L": CDTI (3-wire serial), I2C = "H": SDA (I2C bus)
44	LOOP1	Input	Loopback mode 1 pin. (Note 1) Input from SDTI1 to all DACs.

**Notes:**

1. When P/S = "L", the register and OR are assigned to SDOS, SMUTE, DFS and LOOP1 pins.
2. When P/S = "L" and DZFE = "L", the groups 1 and 2 are selectable with DZM2-0 bit.
3. This pin changes to OVF pin when OVFE bit is set to "1" in the serial control mode.
4. Do not float any input pins.

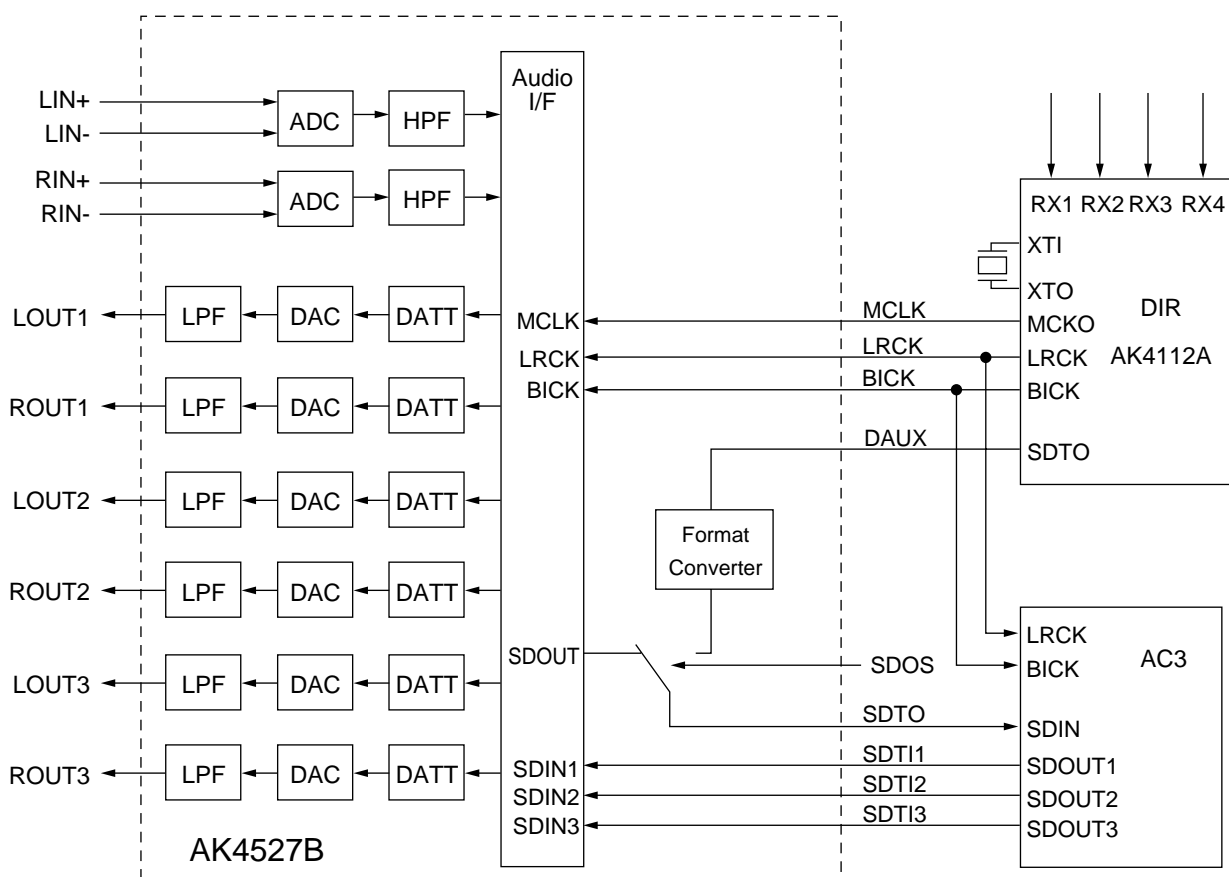


Figure 62 BLOCK DIAGRAM OF IC

## IC601 VHiLC75341/-1: Audio Processor (LC75341)

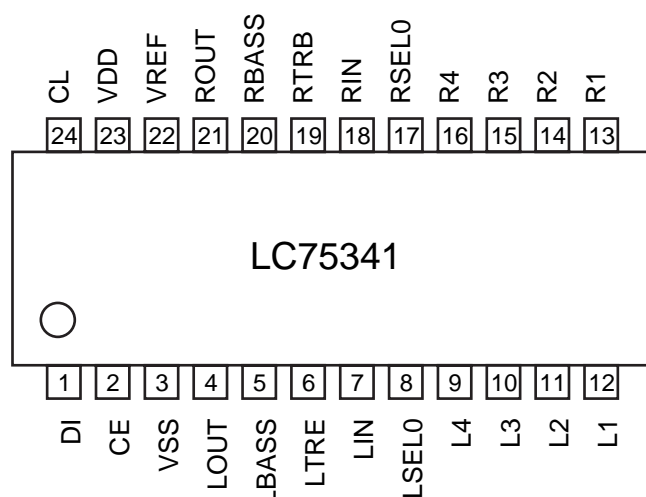
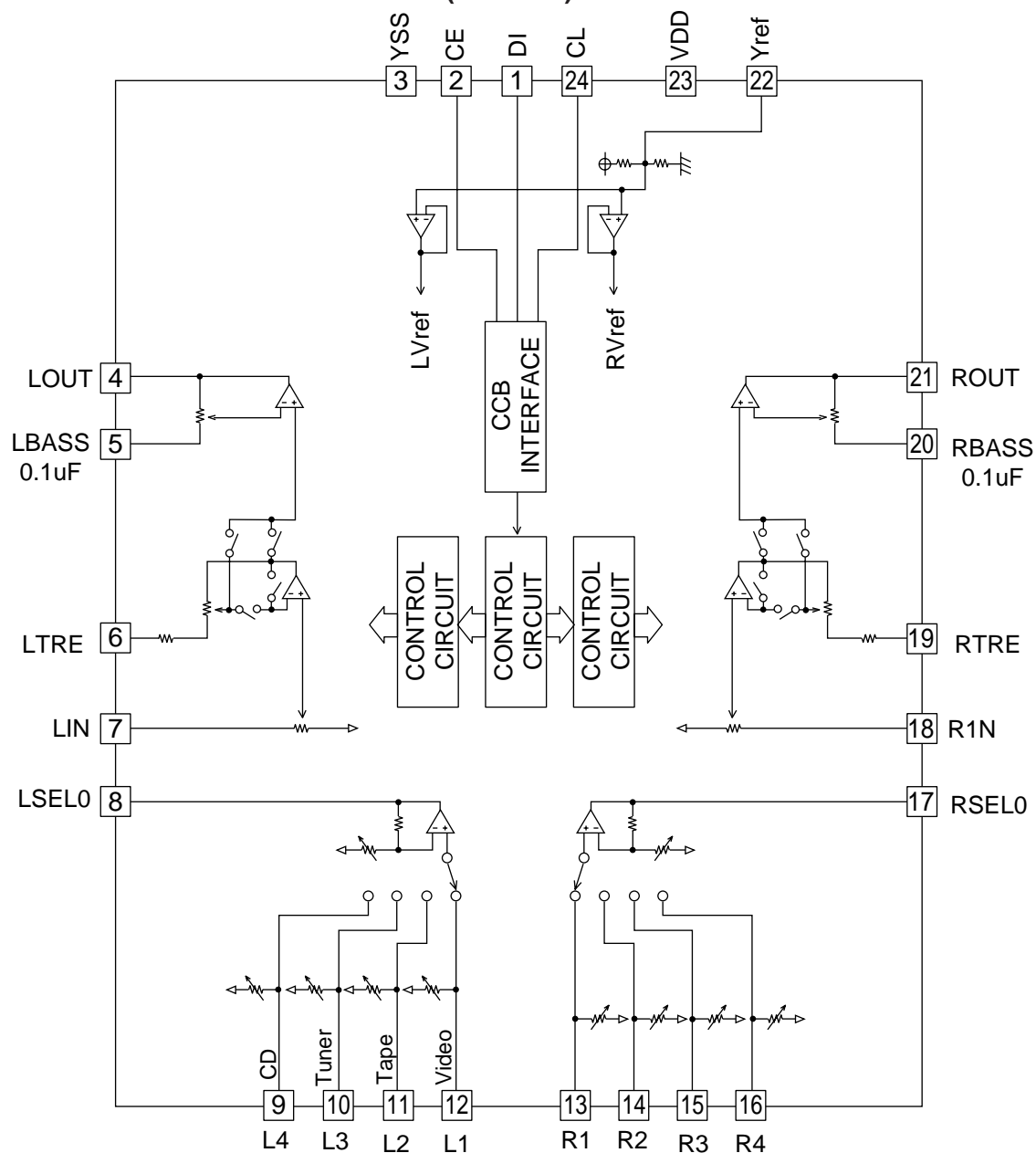


Figure 63 BLOCK DIAGRAM OF IC

## IC602 VHiM62446FP-1: 6-Ch Electronic Volume (M62446FP)

Pin No.	Terminal Name	Function
1*-4*	OUT4-OUT1	Port output.
5	AVDD	Analog positive power supply terminal.
6	SWin	Volume input.
7	GNDS	GND terminal.
8	SRin	Volume input.
9	SLin	Volume input.
10	GNDC	GND terminal.
11	Cin	Volume input.
12	GNDR	GND terminal.
13	Rin	Tone input.
14	GNDL	GND terminal.
15	Lin	Tone input.
16	BYPASSR	Volume input to L/R when bypassed.
17	BYPASSL	Volume input to L/R when bypassed.
18	LTRE	Tone treble frequency adjustment terminal.
19	LBASS3	Tone bass frequency adjustment terminal.
20	LBASS2	Tone bass frequency adjustment terminal.
21	LBASS1	Tone bass frequency adjustment terminal.
22	CR2	Tone output terminal.
23	RBASS2	Tone bass frequency adjustment terminal.

Pin No.	Terminal Name	Function
24	RBASS3	Tone bass frequency adjustment terminal.
25	RTRE	Tone treble frequency adjustment terminal.
26	RBASS1	Tone bass frequency adjustment terminal.
27	CR1	L/R volume input.
28	CL2	Tone output terminal.
29	CL1	L/R volume input.
30	AVSS	Analog negative power supply terminal.
31	Lout	L output.
32	Rout	R output.
33	Cout	Volume output.
34	SLout	Volume output.
35	SRout	Volume output.
36	SWout	Volume output.
37	AGND	Analog GND terminal.
38	DGND	Digital GND terminal.
39	LATCH	Latch input terminal.
40	DATA	Data input terminal.
41	CLK	Clock input terminal for data transfer.
42	DVDD	Digital power supply terminal.

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

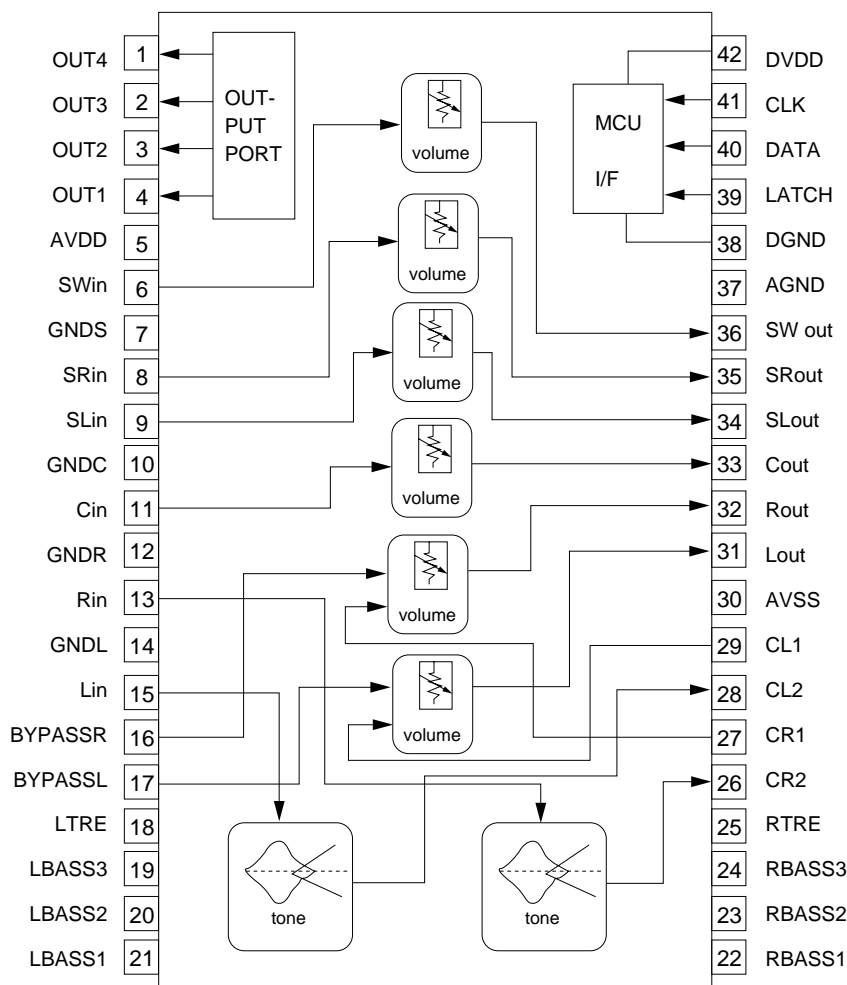


Figure 64 BLOCK DIAGRAM OF IC

**IC701 RH-iX0422AWZZ: System Microcomputer (IX0422AW) (1/2)**

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	AVDD	AVDD	Input	Analog VDD.
2	ANI0	TUN-SM	Input	RDS VSM
3	ANI1	SPEANA 3	Input	SPEANA data input. L, R 16 kHz
4	ANI2	SPEANA 2	Input	SPEANA data input. L, R 63 Hz
5	ANI3	SPEANA 1	Input	SPEANA data input. L, R 1 kHz
6	ANI4	O/C SW	Input	CD open/close switch.
		DISC NO SW	Input	CD disc number switch.
7-9	ANI5-ANI7	KEY 2-KEY 0	Input	Key input.
		PLAY SW_B	Input	Play switch for T 2.
10	ANI8	FPA	Input	TAPE 2 A-SIDE full proof.
		FPB	Input	TAPE 2 B-SIDE full proof.
11	ANI9	HEADPHONE	Input	Headphone switch.
		MIC-IN	Input	MIC-IN sw.
12	P02	DRF	Input	CD RF level detection.
13	P03	WRQ	Input	CD DSP write request.
14	AVSS	AVSS	—	Analog ground.
15	VSS1	VSS1	—	Ground voltage.
16	X1	X1	Input	Main clock.
17	X2	X2	Output	Main clock.
18	VDD1	VDD1	Input	(+) Power supply
19	Vpp/IC	Vpp/IC	—	GND
20	P20/TI00	CD CE	Output	CD CE output.
21	P25/SI0/RxD0	CD DO	Input	CD DSP CODE Q out/MPEG microcomputer data input.
22	P25/SO0/TxD0	CD DI	Output	CD DSP command/MPEG microcomputer command.
23	P25/SCK0/ASCHK0	CD CLK	Output	CD DSP clock/MPEG microcomputer clock.
24	P67/INTP2	P_IN	Input	Power failure control.
25	P66/TIO51	JOG 0	Input	Key jog input 0.
26	P65/INTP1	JOG 1	Input	Key jog input 1.
27	P64/INTP0	REMOCON	Input	Remocon input.
28	P63/TIO50	CE	Output	CE output.
29	P62/SCK1	CLK	Output	Clock output.
30	P61/SO1	DI	Output	Data output.
31	P60/SI1	DO	Input	Data input.
32	P57/SCK2	DD CLK	Output	Dolby decoder clock.
33	P56/SO2	DD DO	Output	Dolby decoder data out.
34	P55/SI2	DD DI	Input	Dolby decoder data in.
35	P54	DD ACK	Input	Dolby decoder ACK.
36	P53	DD LP	Output	Dolby decoder latch
37	P52	DD CS	Output	Dolby decoder CS.
38	P51	DD LOCK	Input	Dolby decoder lock.
39	P50	DD STATUS	Input	Dolby decoder status.
40	VSS0	VSS0	—	Ground voltage.
41	VDD0	VDD0	Input	(+) Power supply.
42	RESET	RESET	Input	Microcomputer reset.
43	P47	T2 RUN	Input	TAPE 2 RUN PULSE input.
44	P46	CD CLAMP SW	Input	CD CHANGER CLAMP switch.
45	P45	DIGI_SEL	Output	CD FUNC: L/EXP FUNC: H
46	P44	RES OUT	Output	CD DSP reset & MPEG microcomputer reset.
47	P43	SP DET	Input	Speaker output detection.
48,49	P42,P41	LCK 2,LCK 1	Output	LED driver LCK. (BU2092-1)
50	P40	T1 RUN	Input	TAPE 1 RUN PULSE input.

## CD-DD4500

### IC701 RH-iX0422AWZZ: System Microcomputer (IX0422AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
51*	P107/FIP47	DIST_OUT (2)	Output	Distination output/switch output.
52	P106/FIP46	KARAOKE LATCH	Output	KARAOKE IC data latch. (When not used. Connect to 0 V)
53	P105/FIP45	6-ch VOL LATCH	Output	6 ch VOL IC data latch.
54	P104/FIP44	NO USE	Input	Open
55	P103/FIP43	SPRLY (FRONT)	Output	(Front) Speaker output relay control.
56	P102/FIP42	SMUTE	Output	System mute control.
57	P101/FIP41	TIMER LED	Output	Timer LED control.
58	P100/FIP40	AC RLY_CONT	Output	AC relay control.
59	P97/FIP39	DIST_OUT	Output	Distination output/switch output.
60	P96/FIP38	SPN	Input	Tuner span change.
	P96/FIP38	P25	Output	FL display segment driver.
61-63	P95/FIP37-P93/FIP35	P24-P22	Output	FL display segment driver.
64	P92/FIP34	DIST3	Input	Distination input.
	P92/FIP34	P21	Output	FL display segment driver.
65	P91/FIP33	DIST2	Input	Distination input.
	P91/FIP33	P20	Output	FL display segment driver.
66	P90/FIP32	DIST1	Input	Distination input.
	P90/FIP32	P19	Output	FL display segment driver.
67	P87/FIP31	DIST0	Input	Distination input.
	P87/FIP31	P18	Output	FL display segment driver.
68-74	P86/FIP31-P80/FIP24	P17-P11	Output	FL display segment driver.
75-78	P77/FIP23-P74/FIP20	P10-P7	Output	FL display segment driver.
79	VDD2	VDD2	Input	(+) Power supply.
80	VLOAD	VLOAD	Input	FL driver (-) power supp. -30 V
81-84	P73/FIP19-P70/FIP16	P6-P3	Output	FL display segment driver.
85,86	FIP15,FIP14	P2,P1	Output	FL display segment driver.
87-100	FIP13-FIP0	G14-G1	Output	FL display segment driver.

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

**IC702 VHiBU2092F/-1: Input/Output Expander (BU2092F)**

Pin No.	Port Name	Terminal Name	Input/Output	Function
1		VSS	—	GND
2		DATA	Input	Serial data input.
3		CLOCK	Input	Shift clock of data.
4		LCK	Input	Latch clock of data.
5	Q0	T_SOL B	Output	TAPE 2 SOLENOID control.
6	Q1	T_SOL A	Output	TAPE 1 SOLENOID control.
7	Q2	T_MOTOR	Output	Tape motor control.
8	Q3	PLAY_FWD LED	Output	Play forward LED.
9	Q4	STOP LED	Output	Stop LED.
10*	Q5	L+	Output	
11*	Q6	L-	Output	
12*	Q7	N.C.	—	
13*	Q8	CD DISC1 LED	Output	CD DISC 1 LED.
14*	Q9	CD DISC2 LED	Output	CD DISC 2 LED.
15*	Q10	CD DISC3 LED	Output	CD DISC 3 LED.
16*	Q11	PLAY_REV LED	Output	Play reverse LED.
17		OE	Input	Output enable.
18		VDD	Input	Power.

In this unit, the terminal with asterisk mark (\*) is (open) terminal which is not connected to the outside.

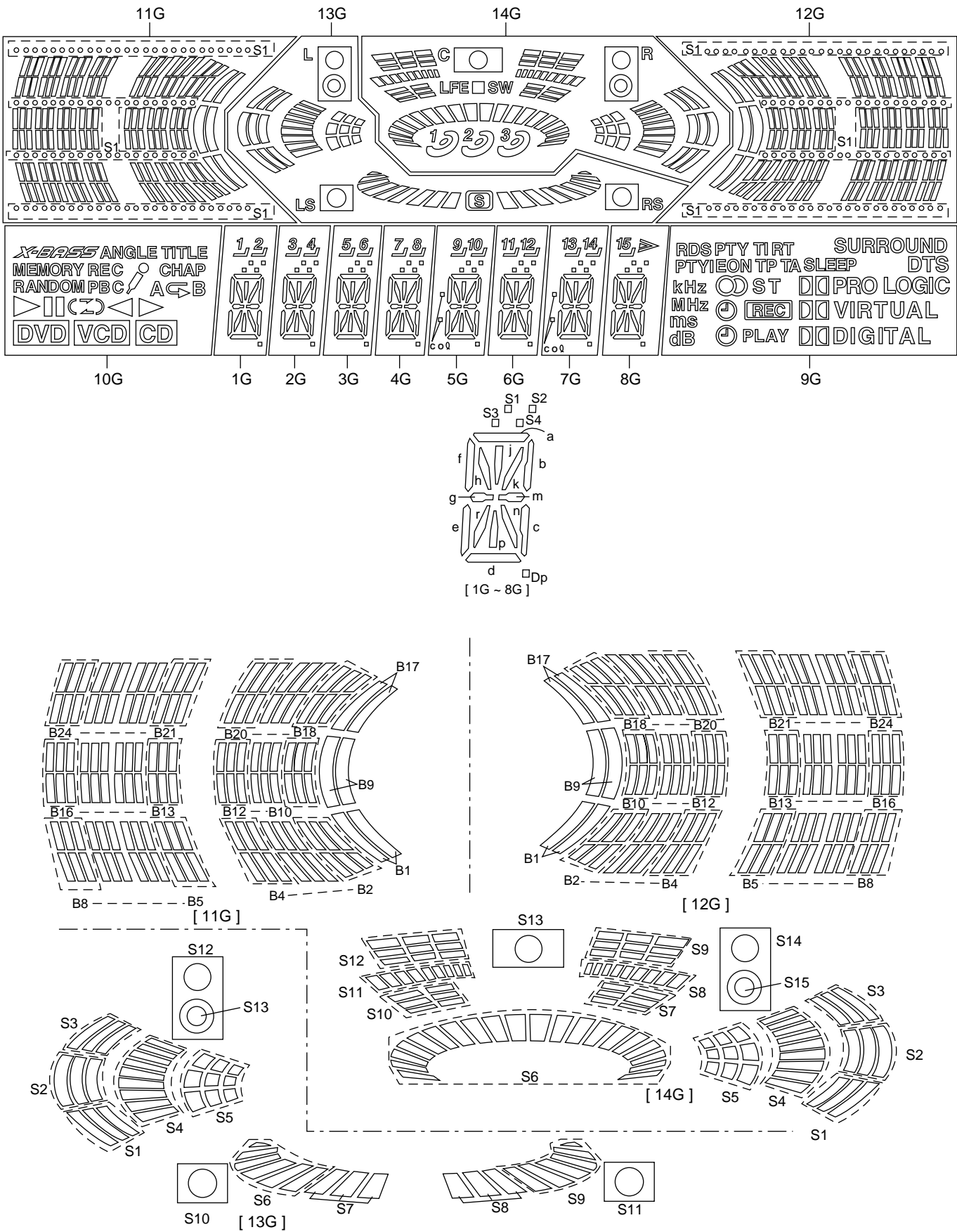
**IC181 VHiBU2092F/-1: Input/Output Expander (BU2092F)**

Pin No.	Port Name	Terminal Name	Input/Output	Function
1		VSS	—	GND
2		DATA	Input	Serial data input.
3		CLOCK	Input	Shift clock of data.
4		LCK	Input	Latch clock of data.
5	Q0	C-SPRLY	Output	Center speaker relay control.
6	Q1	S-SPRLY	Output	Surround speaker relay control.
7	Q2	SW-SPRLY	Output	Subwoofer speaker relay control.
8	Q3	2ch/6ch-RLY	Output	Speaker control.
9	Q4	SW-MUTE	Output	Subwoofer mute control.
10	Q5	T_BIAS	Output	Tape record bias.
11	Q6	T_T1/T2	Output	Tape T 1/T 2 change.
12	Q7	REC/PLAY	Output	Tape Rec/Play change.
13	Q8	FAN CONT	Output	Fan control.
14	Q9	-11dBATT	Output	-11 dB attenuator.
15	Q10	N.C.	—	
16	Q11	DD RESET	Output	Dolby decoder reset.
17		OE	Input	Output enable.
18		VDD	Input	Power.



FL DISPLAY

FL701 VVKBJ844GNK-1: FL Display



## ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G	14G
P1	Dp	Dp	Dp	Dp	Dp	Dp	Dp	Dp	DIGITAL	—	B17	B17	S1	S1
P2	d	d	d	d	d	d	d	d	DIC (DIGITAL)	—	B18	B18	S2	S2
P3	n	n	n	n	n	n	n	n	PLAY	CD	B19	B19	S3	S3
P4	p	p	p	p	p	p	p	p	dB	VCD	B20	B20	S4	S4
P5	r	r	r	r	r	r	r	r	MS	DVD	B21	B21	S5	S5
P6	e	e	e	e	e	e	e	e	VIRTUAL	▶	B22	B22	L	R
P7	c	c	c	c	c	c	c	c	DIC (VIRTUAL)	◀	B23	B23	S12	S14
P8	g	g	g	g	g	g	g	g	REC	◡	B24	B24	S13	S15
P9	m	m	m	m	m	m	m	m	PRO LOGIC	⚡	B9	B9	—	S7
P10	—	—	—	—	CO L	—	CO L	—	DIC (PRO LOGIC)	◡	B10	B10	—	S8
P11	f	f	f	f	f	f	f	f	ST	II	B11	B11	—	S9
P12	b	b	b	b	b	b	b	b	OD	▶	B12	B12	—	S13
P13	k	k	k	k	k	k	k	k	MHZ	B	B13	B13	—	S10
P14	j	j	j	j	j	j	j	j	KHZ	◀	B14	B14	—	S11
P15	h	h	h	h	h	h	h	h	DTS	A	B15	B15	—	S12
P16	a	a	a	a	a	a	a	a	SLEEP	PBC	B16	B16	—	
P17	S4	S4	S4	S4	S4	S4	S4	S4	TA	RANDOM	B1	B1	S9	SW
P18	S3	S3	S3	S3	S3	S3	S3	S3	TP	CHAP	B2	B2	S8	LFE
P19	S2	S2	S2	S2	S2	S2	S2	S2	EON	⚡	B3	B3	S7	(3) ⤿
P20	S1	S1	S1	S1	S1	S1	S1	S1	PTYI	REC	B4	B4	S6	(2) ⤿
P21	1	3	5	7	9	11	13	15	RT	MEMORY	B5	B5	S11	(1) ⤿
P22	2	4	6	8	10	12	14	(15) ⤿	TI	TITLE	B6	B6	S10	⤿
P23	(1) ⤿	(3) ⤿	(15) ⤿	(7) ⤿	(9) ⤿	(11) ⤿	(13) ⤿	▶	PTY	ANGLE	B7	B7	S9	(1) ⤿
P24	(2) ⤿	(4) ⤿	(15) ⤿	(8) ⤿	(10) ⤿	(12) ⤿	(14) ⤿	—	RDS	X-BASS	B8	B8	S10	⤿
P25	—	—	—	—	—	—	—	—	SURROUND	—	S1	S1	LS	

**CD-DD4500**

— MEMO —

# SHARP PARTS GUIDE

## MINI COMPONENT SYSTEM

## MODEL CD-DD4500

CD-DD4500 Mini Component System consisting of CD-DD4500 (main unit), CP-DD4500 (Front), center (GBOXS0064AWM1), surround (R) (GBOXS2008AWM1) and surround (L) (GBOXS4008AWM1) speaker system.

### “HOW TO ORDER REPLACEMENT PARTS”

To have your order filled promptly and correctly, please furnish the following information.

- |                 |                |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. No.    |
| 3. PART NO.     | 4. DESCRIPTION |

★ MARK: SPARE PARTS-DELIVERY SECTION

#### For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,  
Please call Toll-Free;  
1-800-BE-SHARP

### Explanation of capacitors/resistors parts codes

#### Capacitors

VCC ..... Ceramic type  
 VCK ..... Ceramic type  
 VCT ..... Semiconductor type  
 VC •• MF ..... Cylindrical type (without lead wire)  
 VC •• MN ..... Cylindrical type (without lead wire)  
 VC •• TV ..... Square type (without lead wire)  
 VC •• TQ ..... Square type (without lead wire)  
 VC •• CY ..... Square type (without lead wire)  
 VC •• CZ ..... Square type (without lead wire)  
 VC ..... J .. The 13th character represents capacity difference.  
 ("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,  
 "C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)


If there are no indications for the electrolytic capacitors, error is ±20%.

#### Resistors

VRD ..... Carbon-film type  
 VRS ..... Carbon-film type  
 VRN ..... Metal-film type  
 VR •• MF ..... Cylindrical type (without lead wire)  
 VR •• MN ..... Cylindrical type (without lead wire)  
 VR •• TV ..... Square type (without lead wire)  
 VR •• TQ ..... Square type (without lead wire)  
 VR •• CY ..... Square type (without lead wire)  
 VR •• CZ ..... Square type (without lead wire)  
 VR ..... J .. The 13th character represents error.  
 ("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

#### NOTE:

Parts marked with “” are important for maintaining the safety of the set.

Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

# CD-DD4500

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
<b>CD-DD4500</b>				
<b>INTEGRATED CIRCUITS</b>				
IC1	VHILC78645NE1	J	AY	CD Servo,LC78645NE
IC2	VHIM63001FP-1	J	AX	Focus/Tracking/Spin/Sled Driver, M63001FP
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
IC102	VHIBA3126N/-1	J	AF	Head Selector,BA3126N
IC181	VHIBU2092F/-1	J	AM	Input/Output Expander,BU2092F
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1832S/-1	J	AN	FM IF Det./FM Mpx./AM IF, LA1832S
IC401	VHISTK40224-1	J	BC	Power Amp.,STK40224
IC501	VHPTORX178B-1	J		Optical Fiber Data Link, TORX178B
IC502	VHI74VHC00F-1	J	AE	Invertor,74VHC00F
IC504	RH-IX0443AWZZ	J	BM	Dolby Decoder,IX443AW
IC505	RH-IX0454AWZZ	J	BB	6-ch Codec IC,AK4527BVQ
IC571	VHITA48M033-1	J	AK	3.3V Voltage Regulator, TA48M033F (S)
IC601	VHILC75341/-1	J	AM	Audio Processor,LC75341
IC602	VHIM62446FP-1	J	AY	6-ch Electronic Volume, M62446FP
IC605~607	VHINJM4565M-1	J	AC	Buffer Amp.,NJM4565M
IC701	RH-IX0442AWZZ	J	BA	System Microcomputer, IX0442AW
IC702	VHIBU2092F/-1	J	AM	Input/Output Expander,BU2092F
IC703,704	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC850	VHIKIA7810AP1	J	AF	Voltage Regulator,KIA7810AP
IC851	VHIKIA7805AP1	J	AF	Constant Voltage Regulator, KIA7805AP
IC880	VHIKIA7805AP1	J	AF	Constant Voltage Regulator, KIA7805AP
IC901,902	VHISTK40270N1	J	AY	Power Amp.,STK40270N
IC904	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC905,906	VHITC4053BP-1	J	AE	Triple 2-Channel Multiplexer, TC4053BP
IC907	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
<b>TRANSISTORS</b>				
Q1	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q2	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q3	VSKRC102M/-1	J	AC	Digital,NPN,KRC102 M
Q101	VSKRC104M/-1	J	AC	Digital,NPN,KRC104 M
Q102,103	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q121,122	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q124	VS2SA1015GR-1	J	AB	Silicon,PNP,2SA1015 GR
Q126	VSKRC104M/-1	J	AC	Digital,NPN,KRC104 M
Q128	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q360	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q371	VSKTA1266GR-1	J	AB	Silicon,PNP,KTA1266 GR
Q401~404	VS2SC2878B/-1	J	AC	Silicon,NPN,2SC2878 B
Q405,406	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q407,408	VS2SC2878B/-1	J	AC	Silicon,NPN,2SC2878 B
Q409~413	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q420	VSKRC107M/-1	J	AC	Digital,NPN,KRC107 M
Q421	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q422	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q423	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q424	VS2SB1565F/-1	J	AG	Silicon,PNP,2SB1565 F
Q503	VSKRC104M/-1	J	AC	Digital,NPN,KRC104 M
Q505	VSKRC104M/-1	J	AC	Digital,NPN,KRC104 M
Q520	VSKRC104M/-1	J	AC	Digital,NPN,KRC104 M
Q572	VS2SD468-C/-1	J	AD	Silicon,NPN,2SD468 C
Q601	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q602	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q701~706	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q707	VSKRC102M/-1	J	AC	Digital,NPN,KRC102 M
Q708,709	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q710	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q712	VSKRC104M/-1	J	AC	Digital,NPN,KRC104 M
Q806	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q850,851	VSKTC2026Y/-1	J	AE	Silicon,NPN,KTC2026 Y
Q859	VSKRA107M/-1	J	AE	Digital,PNP,KRA107 M
Q880	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q891~893	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q905~908	VS2SC2878B/-1	J	AC	Silicon,NPN,2SC2878 B

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
Q909~912	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q913,914	VSKRA107M/-1	J	AE	Digital,PNP,KRA107 M
Q915	VSKRC107M/-1	J	AC	Digital,NPN,KRC107 M
Q916	VSKRA107M/-1	J	AE	Digital,PNP,KRA107 M
Q917	VS2SC2878B/-1	J	AC	Silicon,NPN,2SC2878 B
Q918~921	VSKTC3199GR-1	J	AB	Silicon,NPN,KTC3199 GR
Q937	VSKTA1046Y+/-1	J	AF	Silicon,PNP,KTA1046 Y
<b>DIODES</b>				
D1,2	VHDD1SS133/-	J		Silicon,D1SS133
D181~186	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D301~306	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D352	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D401~406	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D409,410	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D500,501	VHD1SS133/-V	J	AC	Silicon,1SS133
D502,503	VHD1SS133/-1	J	AA	Silicon,1SS133
D506~513	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D601,602	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D604	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D701~712	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D801,802	VHDT56B04GM-1	J	AP	Silicon,TS6B04GM-1
D803~811	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D851~853	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D855	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D859,860	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D880	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D881~884	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D885	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D901~906	VHDD1SS133-1	J	AB	Silicon,DS1SS133
D908	VHDD1SS133-1	J	AB	Silicon,DS1SS133
DZ403	VHEDZ3R9BSB-1	J	AC	Zener,3.9V,DZ3.9BSB
DZ404	VHEDZ5R6BSB-1	J	AC	Zener,5.6V,DZ5.6BSB
DZ571	VHEMTZJ5R6A-V	J	AB	Zener,5.6V,MTZJ5.6A
DZ802	VHEDZ2R4BSB-1	J	AB	Zener,2.4V,DZ2.4BSB
DZ803	VHEDZ360BSC-1	J	AB	Zener,36V,DZ36BSC
DZ804	VHEDZ6R2BSA-1	J	AB	Zener,6.2V,DZ6.2BSA
DZ901,902	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
DZ903	VHEDZ130BSC-1	J	AB	Zener,13V,DZ13BSC
LED701,702	VHP4204UYT7-1	J	AD	LED,Yellow,4204UYT7
LED709	VHP4204SRT7-1	J	AD	LED,Red,4204SRT7
ZD1	VHEDZ3R3BSB-1	J	AB	Zener,3.3V,DZ3.3BSB
ZD2	VHEDZ3R9BSB-1	J	AC	Zener,3.9V,DZ3.9BSB
ZD351	VHEDZ5R1BSB-1	J	AC	Zener,5.1V,DZ5.1BSB
ZD601,602	VHEDZ7R5BSC-1	J	AB	Zener,7.5V,DZ7.5BSC
ZD701	VHEDZ6R2BSC-1	J	AB	Zener,6.2V,DZ6.2BSC
ZD850	VHEDZ2R4BSB-1	J	AB	Zener,2.4V,DZ2.4BSB
<b>FILTERS</b>				
CF302	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	RFILF0003AWZZ	J	AK	FM IF
CF352	RFILA0009AWZZ	J	AE	AM IF
<b>TRANSFORMERS</b>				
T302	RCILA0062AWZZ	J	AC	AM Tracking
T306	RCILB0066AWZZ	J	AD	AM OSC
T351	RCILJ0019AWZZ	J	AD	AM IF
△ T801	RTRNP0384AWZZ	J	BG	Power
△ T802	RTRNP0312AWZZ	J	AM	Power
<b>COILS</b>				
L1	VP-XHR82K0000	J	AC	0.82 μH
L103	VP-DH101K0000	J	AB	100 μH,Choke
L104	VP-MK331K0000	J	AB	330 μH,Choke
L342	VP-DH2R2K0000	J	AB	2.2 μH,Peaking
L351,352	VP-DH101K0000	J	AB	100 μH,Choke
L353	VP-DH102K0000	J	AB	1 mH,Choke
L401~403	RCILZ0137AFZZ	J	AA	0.29 μH
L500	VP-XF100K0000	J	AB	10 μH,Choke
L501	VP-XFR82K0000	J	AD	0.82 μH
L505~507	RCILC0353AFZZ	J	AB	Tip Solid Induction,100mA
L510~513	RCILC0353AFZZ	J	AB	Tip Solid Induction,100mA
L570	VP-XFR82K0000	J	AD	0.82 μH
L701	VP-DH101K0000	J	AB	100 μH,Choke
L702	VP-DH2R2K0000	J	AB	2.2 μH,Peaking
△ L802	RCILZ0021AWZZ	J	AF	AC Line Filter

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
L901~904	RCILZ0137AFZZ	J	AA	0.29 μH	C150	VCQPKA2AA822J	J	AA	0.0082 μF,100V,Polypropylene
<b>VARIABLE RESISTOR</b>					C151	VCQYKA1HM393K	J	AB	0.039 μF,50V,Mylar
VR351	RVR-M0026AWZZ	J	AC	10 kohm (B),Semi-VR [FM Mute Level]	C152	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
<b>VARIABLE CAPACITOR</b>					C154	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
VD301	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S	C181~183	VCCCCY1HH101J	J	AA	100 pF (CH),50V
<b>VIBRATORS</b>					C184	VCKYCY1EB223K	J	AB	0.022 μF,25V
X351	92LCRSTL1425A	J	AF	Crystal,456 kHz	C185	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic
X352	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz	C186,187	VCKYCY1EB223K	J	AB	0.022 μF,25V
X501	RCRSP0028AWZZ	J	AH	Crystal,2.2 MHz	C188	VCTYBT1EF223Z	J	AA	0.022 μF,25V
XL1	RCRSP0025AWZZ	J	AK	Crystal,33.8688 MHz	C189,190	VCKYCY1EB223K	J	AB	0.022 μF,25V
XL701	RCRSP0026AWZZ	J	AG	Crystal,4.194304 MHz	C194,195	VCFYHA1HA334J	J	AC	0.33 μF,50V,Thin Film
<b>THERMISTOR</b>					C196	VCKYCY1HB822K	J	AA	0.0082 μF,16V
△ RP851	RH-QX0011AWZZ	J	AG	Posistor,0.23 ohms	C197,198	VCKYCY1HB153K	J	AA	0.015 μF,50V
△ RP901	RH-QX0003AWZZ	J	AK	Posistor,2.2 ohms	C199	VCKYCY1HB822K	J	AA	0.0082 μF,16V
<b>CAPACITORS</b>					C301	VCKYBT1HB102K	J	AA	0.001 μF,50V
C1	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C310~312	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C2	VCTYMN1CY103N	J	AA	0.01 μF,16V	C321	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C3	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C323	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C4	VCKYMN1HB102K	J	AA	0.001 μF,50V	C330	VCCUBT1HJ120J	J	AA	12 pF (UJ),50V
C5	VCQYKA1HM473J	J	AB	0.047 μF,50V,Mylar	C331	VCKYPA1HF473Z	J	AB	0.047 μF,50V
C6	VCTYPA1CX104K	J	AB	0.1 μF,16V	C332	VCKYCY1EB223K	J	AB	0.022 μF,25V
C8	VCTYMN1CX472K	J	AA	0.0047 μF,16V	C334	VCCUBT1HJ150J	J	AA	15 pF (UJ),50V
C9	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic	C335	VCKYCY1HB331K	J	AA	330 pF,50V
C10	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic	C336	VCKYBT1HB102K	J	AA	0.001 μF,50V
C11	VCEAZA1HW224M	J	AB	0.22 μF,50V,Electrolytic	C337	VCKYCY1EB223K	J	AB	0.022 μF,25V
C12	VCCSPA1HL101J	J	AA	100 pF,50V	C338	VCKYBT1HB102K	J	AA	0.001 μF,50V
C13	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C339	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C14	RC-EZY107AF1A	J	AB	100 μF,10V,Electrolytic	C341,342	VCKYCY1EB223K	J	AB	0.022 μF,25V
C16	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	C343	VCCCCY1HH330J	J	AA	33 pF (CH),50V
C17	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C345~347	VCKYCY1EB223K	J	AB	0.022 μF,25V
C18	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic	C350	VCKYPA1HF473Z	J	AB	0.047 μF,50V
C19,20	VCCSMN1HL150J	J	AA	15 pF,50V	C351	VCKYCY1EB223K	J	AB	0.022 μF,25V
C27	VCTYMN1EF223Z	J	AA	0.022 μF,25V	C352	VCEAEA1CW106M	J	AB	10 μF,16V,Electrolytic
C28	VCKYMN1HB101K	J	AA	100 pF,50V	C353,354	VCKYCY1EB223K	J	AB	0.022 μF,25V
C30	VCKYMN1HB101K	J	AA	100 pF,50V	C355	VCCCCY1HH220J	J	AA	22 pF (CH),50V
C32~34	VCKYMN1HB101K	J	AA	100 pF,50V	C356	VCKYCY1HB102K	J	AA	0.001 μF,50V
C35	VCQYKA1HM473J	J	AB	0.047 μF,50V,Mylar	C357	VCEAEA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C36	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic	C358	VCEAEA1HW105M	J	AB	1 μF,50V,Electrolytic
C37	VCTYPA1CX104K	J	AB	0.1 μF,16V	C361	VCKYCY1EB223K	J	AB	0.022 μF,25V
C38	VCTYMN1CY103N	J	AA	0.01 μF,16V	C362	VCEAEA1HW335M	J	AB	3.3 μF,50V,Electrolytic
C39	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic	C363	VCKYCY1EB223K	J	AB	0.022 μF,25V
C40	VCEAZA0JW227M	J	AC	220 μF,6.3V,Electrolytic	C364	VCEAEA1CW106M	J	AB	10 μF,16V,Electrolytic
C41	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic	C365	VCTYPA1CX223K	J	AA	0.022 μF,16V
C44	VCKYMN1HB102K	J	AA	0.001 μF,50V	C366	VCKYCY1HB102K	J	AA	0.001 μF,50V
C48	VCKZPA1HF223Z	J	AA	0.022 μF,50V	C367,368	VCEAEA1HW105M	J	AB	1 μF,50V,Electrolytic
C49	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C370~372	VCEAEA1HW105M	J	AB	1 μF,50V,Electrolytic
C50	VCCCPA1HH220J	J	AA	22 pF (CH),50V	C373,374	VCTYPA1CX333K	J	AA	0.033 μF,16V
C51	VCTYBT1EF223Z	J	AA	0.022 μF,25V	C376	VCKYCY1EB223K	J	AB	0.022 μF,25V
C101,102	VCKYCY1HB561K	J	AA	560 pF,50V	C377	VCKYPA1HF473Z	J	AB	0.047 μF,50V
C103	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic	C380	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C105	VCKYBT1HB181K	J	AA	180 pF,50V	C381	VCCCCY1HH120J	J	AA	12 pF (CH),50V
C106	VCCCCY1HH181J	J	AA	180 pF (CH),50V	C382	VCCCCY1HH150J	J	AA	15 pF (CH),50V
C107,108	VCKYCY1HB561K	J	AA	560 pF,50V	C384	VCKYBT1HB102K	J	AA	0.001 μF,50V
C109	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic	C385	VCTYPA1CX103K	J	AA	0.01 μF,16V
C111~114	VCCCCY1HH181J	J	AA	180 pF (CH),50V	C386	VCKYCY1HB331K	J	AA	330 pF,50V
C115,116	VCEAZA1EW107M	J	AB	100 μF,25V,Electrolytic	C387	VCKYCY1EB223K	J	AB	0.022 μF,25V
C117,118	VCTYPA1EX333K	J	AA	0.033 μF,25V	C389	VCKYBT1HB102K	J	AA	0.001 μF,50V
C119,120	VCKYCY1HB561K	J	AA	560 pF,50V	C390	VCKYCY1HB102K	J	AA	0.001 μF,50V
C121,122	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic	C391	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C123,124	VCTYPA1EX152K	J	AA	0.0015 μF,25V	C392	VCKYCY1HB102K	J	AA	0.001 μF,50V
C127	VCKYCY1EB223K	J	AB	0.022 μF,25V	C393	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C128	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic	C394	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C131,132	VCCCCY1HH271J	J	AA	270 pF (CH),50V	C395	VCKYCY1EB223K	J	AB	0.022 μF,25V
C133,134	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic	C396	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C135,136	VCTYPA1CX223K	J	AA	0.022 μF,16V	C397	VCKYCY1EB223K	J	AB	0.022 μF,25V
C139,140	VCKYCY1HB332K	J	AA	0.0033 μF,50V	C398	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C141,142	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic	C399	VCKYCY1EB223K	J	AB	0.022 μF,25V
C145	VCEAZA1EW226M	J	AB	22 μF,25V,Electrolytic	C401~404	VCKYBT1HB102K	J	AA	0.001 μF,50V
C146	VCEAZA1AW227M	J	AC	220 μF,10V,Electrolytic	C405,406	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
					C407,408	VCCSPA1HL150J	J	AA	15 pF,50V
					C409,410	VCKYBT1HB561K	J	AA	560 pF,50V
					C411,412	VCKZPA1HF223Z	J	AA	0.022 μF,50V
					C413,414	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
					C423,424	VCKYBT1HB102K	J	AA	0.001 μF,50V
					C425	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
					C426	VCCSPA1HL150J	J	AA	15 pF,50V
					C427	VCKYBT1HB561K	J	AA	560 pF,50V
					C428	VCEAZA1HW224M	J	AB	0.22 μF,50V,Electrolytic
					C429	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
					C430,431	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
					C432	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
					C433	VCKZPA1HF223Z	J	AA	0.022 μF,50V



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NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C435	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C437	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C442~444	VCKYBT1HB471K	J	AA	470 pF,50V
C455	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C456	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C457	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C458	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic
C460,461	VCEAEA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C462	VCQYKA1HM273J	J	AB	0.027 μF,50V,Mylar
C500	VCKYCY1EB104K	J	AD	0.1 μF,25V
C501	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C503	VCKYCY1EB104K	J	AD	0.1 μF,25V
C504	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C505	VCCCCY1HH150J	J	AA	15 pF (CH),50V
C506	VCCCCY1HH100D	J	AA	10 pF (CH),50V
C507	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C508	VCKYCY1EB104K	J	AD	0.1 μF,25V
C511	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C512~515	VCKYCY1EB104K	J	AD	0.1 μF,25V
C517	VCKYCY1EB104K	J	AD	0.1 μF,25V
C518	VCEAZA1AW477M	J	AC	470 μF,10V,Electrolytic
C519	VCKYCY1EB104K	J	AD	0.1 μF,25V
C520	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C521	VCKYCY1EB104K	J	AD	0.1 μF,25V
C523	VCKYCY1EB103K	J	AA	0.01 μF,25V
C524	VCKYCY1AB474K	J	AC	0.47 μF,10V
C525	VCKYCY1EB104K	J	AD	0.1 μF,25V
C526	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C527	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C528	VCCCCY1HH121J	J	AA	120 pF (CH),50V
C530	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C531	VCKYCY1EB104K	J	AD	0.1 μF,25V
C532	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C533	VCKYCY1EB104K	J	AD	0.1 μF,25V
C535	VCKYCY1EB103K	J	AA	0.01 μF,25V
C536	VCKYCY1EB104K	J	AD	0.1 μF,25V
C537	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C538	VCKYCY1HB102K	J	AA	0.001 μF,50V
C540~545	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C546~551	VCKYCY1EB153K	J	AA	0.015 μF,25V
C552,553	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C554,555	VCKYCY1EB104K	J	AD	0.1 μF,25V
C556,557	VCKYCY1HB102K	J	AA	0.001 μF,50V
C558,559	VCEAZA1EW475M	J	AC	4.7 μF,25V,Electrolytic
C571	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic
C573	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C574	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C575	VCEAZA1AW107M	J	AB	100 μF,10V,Electrolytic
C576~578	VCKYCY1EB223K	J	AB	0.022 μF,25V
C579	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C599	VCKZPA1HF473Z	J	AA	0.047 μF,50V
C600	VCKYCY1EB223K	J	AB	0.022 μF,25V
C601	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C602	VCKYCY1EB223K	J	AB	0.022 μF,25V
C603,604	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C605~608	VCKYCY1EF104Z	J	AA	0.1 μF,25V
C609,610	VCKYCY1HB272K	J	AA	0.0027 μF,50V
C611~620	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C623,624	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C625	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic
C626	VCCCPA1HH101J	J	AA	100 pF (CH),50V
C627	VCEAEA1HW105M	J	AB	1 μF,50V,Electrolytic
C629,630	VCCCCY1HH391J	J	AB	390 pF (CH),50V
C631~640	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic
C641~643	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C644	VCKYCY1EB223K	J	AB	0.022 μF,25V
C645,646	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic
C647~650	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C653,654	VCEAZA1HW226M	J	AB	22 μF,50V,Electrolytic
C655,656	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic
C657,658	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C659,660	VCKYCY1EB223K	J	AB	0.022 μF,25V
C661,662	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C663,664	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C665,666	VCEAEA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C667,668	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C671,672	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C673,674	VCKYCY1EB223K	J	AB	0.022 μF,25V
C675	VCQYKA1HM822J	J	AB	0.0082 μF,50V,Mylar
C676	VCEAEA1CW106M	J	AB	10 μF,16V,Electrolytic
C677,678	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C679,680	VCEAEA1HW225M	J	AB	2.2 μF,50V,Electrolytic

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C681,682	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C683,684	VCQYKA1HM153K	J	AB	0.015 μF,50V,Mylar
C685,686	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C687,688	VCKYCY1EB223K	J	AB	0.022 μF,25V
C689	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C690	VCEAEA1CW106M	J	AB	10 μF,16V,Electrolytic
C691,692	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C693,694	VCEAEA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C695,696	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C698	VCQYKA1HM153K	J	AB	0.015 μF,50V,Mylar
C699	VCEAZA0JW227M	J	AC	220 μF,6.3V,Electrolytic
C701,702	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C703	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C704	VCCCCY1HH150J	J	AA	15 pF (CH),50V
C705	VCCCCY1HH180J	J	AA	18 pF (CH),50V
C706,707	VCKYCY1EB223K	J	AB	0.022 μF,25V
C708	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C709	VCKYCY1EB223K	J	AB	0.022 μF,25V
C710,711	VCKYCY1HB102K	J	AA	0.001 μF,50V
C712,713	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C714	VCKYCY1EB223K	J	AB	0.022 μF,25V
C715	VCEAZA1HW335M	J	AB	3.3 μF,50V,Electrolytic
C717	VCTYBT1CY103M	J	AA	0.01 μF,16V
C718	VCEAZA1AW227M	J	AC	220 μF,10V,Electrolytic
C719	VCKYCY1EB223K	J	AB	0.022 μF,25V
C720	VCEAZA1CW476M	J	AB	47 μF,16V,Electrolytic
C721~723	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C724,725	VCKYCY1HB271K	J	AA	270 pF,50V
C726,727	VCTYBT1CX682M	J	AA	0.0068 μF,16V
C728	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C730	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C731,732	VCKYCY1EB223K	J	AB	0.022 μF,25V
C733	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C734,735	VCKYCY1HB272K	J	AA	0.0027 μF,50V
C736	VCKYCY1EB223K	J	AB	0.022 μF,25V
C737	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C756	VCKYCY1EB223K	J	AB	0.022 μF,25V
C801~806	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C808,809	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C810	VCEAZV1JW107M	J	AC	100 μF,63V,Electrolytic
C811	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C812,813	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C814	VCEAZA1VW107M	J	AC	100 μF,35V,Electrolytic
C815,816	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C851	VCEAZW1VW228M	J	AH	2200 μF,35V,Electrolytic
C852	VCEAZW1CW478M	J	AG	4700 μF,16V,Electrolytic
C853,854	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C855	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C856	VCEAZA1EW227M	J	AC	220 μF,25V,Electrolytic
C857~859	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C860	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C862	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C877	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C880	RC-KZ002LAWZZ	J	AC	0.0047 μF,250V,Ceramic
C881	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C882	VCEAZV1VW477M	J	AD	470 μF,35V,Electrolytic
C883	VCEAZA0JW108M	J	AC	1000 μF,6.3V,Electrolytic
C884	VCQYKA1HM473K	J	AB	0.047 μF,50V,Mylar
C885	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C891~893	VCKYCY1HB102K	J	AA	0.001 μF,50V
C901,902	VCFYHA1HA154J	J	AC	0.15 μF,50V,Thin Film
C903	VCKYPA1HF223Z	J	AB	0.022 μF,50V
C904,905	VCQYKA1HM823K	J	AC	0.082 μF,50V,Mylar
C906	VCKYPA1HF223Z	J	AB	0.022 μF,50V
C907,908	VCCSPA1HL101J	J	AA	100 pF,50V
C909,910	VCEAZA1CW106M	J	AC	10 μF,16V,Electrolytic
C911,912	VCQYKA1HM153K	J	AB	0.015 μF,50V,Mylar
C913,914	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C915,916	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C917,918	VCCCPA1HH221J	J	AA	220 pF (CH),50V
C923~926	VCKYBT1HB102K	J	AA	0.001 μF,50V
C927~930	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C931~934	VCCSPA1HL150J	J	AA	15 pF,50V
C935~938	VCKYBT1HB221K	J	AA	220 pF,50V
C939~942	VCTYBT1EF223Z	J	AA	0.022 μF,25V
C943~946	VCQYKA1HM104K	J	AB	0.1 μF,50V,Mylar
C963,964	VCEAZA1HW105M	J	AB	1 μF,50V,Electrolytic
C965	VCEAZA1EW335M	J	AB	3.3 μF,25V,Electrolytic
C966	VCEAZA1HW476M	J	AB	47 μF,50V,Electrolytic
C967	VCKYPA1HF223Z	J	AB	0.022 μF,50V
C968	VCQYKA1HM223K	J	AB	0.022 μF,50V,Mylar
C969	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic



NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C971	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C972	VCEAEA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C973	VCKYPA1HF223Z	J	AB	0.022 μF,50V
C974	VCKYBT1HB102K	J	AA	0.001 μF,50V
C976,977	VCEAZA1HW224M	J	AB	0.22 μF,50V,Electrolytic
C978,979	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C980~983	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C984,985	VCEAZA1HW107M	J	AC	100 μF,50V,Electrolytic
C986,987	VCEAZW1HJ338M	J	AL	3300 μF,50V,Electrolytic
C988	VCEAZA0JW337M	J	AC	330 μF,6.3V,Electrolytic
C990	VCEAZA1CW107M	J	AC	100 μF,16V,Electrolytic
C991	VCKYPA1HF223Z	J	AB	0.022 μF,50V
C993	VCQYKA1HM103K	J	AA	0.01 μF,50V,Mylar
C995,996	RC-EZ0065AWZZ	J	AN	4700 μF,50V,Electrolytic
C997~999	VCEAEA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C1001	VCEAEA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C1003	VCEAZA1EW476M	J	AB	47 μF,25V,Electrolytic
C1006~1009	VCKYBT1HB471K	J	AA	470 pF,50V
C1010~1012	VCEAZA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C1013	VCEAEA1HW225M	J	AB	2.2 μF,50V,Electrolytic
C1014	VCEAZA1HW106M	J	AB	10 μF,50V,Electrolytic
C1015	VCEAZA1EW335M	J	AB	3.3 μF,25V,Electrolytic
C7013	VCKYCY1EB223K	J	AB	0.022 μF,25V
C7014	VCKYBT1HB102K	J	AA	0.001 μF,50V
C7015	VCKYCY1EB223K	J	AB	0.022 μF,25V
C7016	VCKYPA1HF223Z	J	AB	0.022 μF,50V
CT1,2	VCTYPA1CX102K	J	AA	0.001 μF,16V
CX02~04	VCKYPA1HF223Z	J	AB	0.022 μF,50V

## RESISTORS

	VRD-MN2BD000C	J	AA	0 ohm,Jumper,ø1.4×3.5mm,Ivory
	VRS-CY1JB000J	J	AA	0 ohm,Jumper,0.8×1.55mm,Green
R1,2	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R3	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R4,5	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R6	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R7	VRD-ST2CD470J	J	AA	47 ohms,1/6W
R9	VRD-ST2CD3R3J	J	AA	3.3 ohms,1/6W
R10	VRD-ST2CD273J	J	AA	27 kohms,1/6W
R11	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R12	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R13~17	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R18	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R19	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R20	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R22	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R23	VRD-MN2BD221J	J	AA	220 ohms,1/8W
R28,29	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R30	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R31~38	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R39,40	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R41	VRD-MN2BD123J	J	AA	12 kohms,1/8W
R42	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R43	VRD-MN2BD221J	J	AA	220 ohms,1/8W
R44	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R45,46	VRD-MN2BD471J	J	AA	470 ohms,1/8W
R47	VRD-MN2BD101J	J	AA	100 ohm,1/8W
R49	VRD-ST2EE1R0J	J	AA	1 ohm,1/4W
R65	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R101	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R102	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R103	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R104	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R105	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R106	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R107	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R108,109	VRS-CY1JB274J	J	AA	270 kohms,1/16W
R110	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R113,114	VRS-CY1JB153J	J	AA	15 kohms,1/16W
R117	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R118	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R119,120	VRS-CY1JB560J	J	AA	56 ohms,1/16W
R121,122	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R123,124	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R125,126	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R131,132	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R133	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R134	VRS-CY1JB683J	J	AA	68 kohms,1/16W
R135,136	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R137,138	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W

R139,140	VRS-CY1JB152J	J	AA	1.5 kohms,1/16W
R141,142	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R145,146	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R153,154	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R156,157	VRD-ST2CD823J	J	AA	82 kohms,1/6W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R160	VRD-ST2EE820J	J	AA	82 ohms,1/4W
R162	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R164	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R166	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R167	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R168	VRD-ST2CD4R7J	J	AA	4.7 ohms,1/6W
R171~173	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R174~180	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R181~183	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R184,185	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R186	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R187~192	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R193	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R194,195	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R196	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R301	VRD-ST2CD151J	J	AA	150 ohms,1/6W
R323	VRS-CY1JB683J	J	AA	68 kohms,1/16W
R336	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R345	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R350	VRS-CY1JB272J	J	AA	2.7 kohms,1/16W
R351	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R352	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R353	VRS-CY1JB271J	J	AA	270 ohms,1/16W
R354	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R355	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R356	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R357	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R358	VRS-CY1JB822J	J	AA	8.2 kohms,1/16W
R359	VRS-CY1JB182J	J	AA	1.8 kohms,1/16W
R360	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R361,362	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R363,364	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
R369	VRD-ST2CD471J	J	AA	470 ohms,1/6W
R370	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R371	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W
R372~374	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R376	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R377	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R378	VRS-CY1JB823J	J	AA	82 kohms,1/16W
R379	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R380	VRS-CY1JB152J	J	AA	1.5 kohms,1/16W
R381	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R382	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R383~385	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R386	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R389	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R391,392	VRD-ST2EE391J	J	AA	390 ohms,1/4W
R393	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R395	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R399	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R401,402	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R403,404	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R405,406	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R407,408	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R409,410	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R411,412	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R413,414	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R415,416	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R417,418	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R419,420	VRS-VV3AAR10J	J	AB	0.1 ohm,1W
R421,422	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R423,424	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R425,426	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R427,428	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R433	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R434	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R435	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R436	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R437	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R438	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R439	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R440	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R441	VRD-ST2CD223J	J	AA	22 kohms,1/6W
△ R442,443	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R444	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R445	VRS-VV3AAR10J	J	AB	0.1 ohm,1W

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NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R446	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R714,715	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R449,450	VRD-ST2CD563J	J	AA	56 kohms,1/6W	R716,717	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R451	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W	R718-720	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R452,453	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R721	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R454,455	VRD-ST2CD473J	J	AA	47 kohms,1/6W	R722-724	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R456	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W	R725,726	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R471	VRD-ST2CD223J	J	AA	22 kohms,1/6W	R727,728	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R472	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R729,730	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R473	VRD-ST2CD224J	J	AA	220 kohms,1/6W	R731,732	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R476	VRD-RT2HD100J	J	AA	10 ohm,1/2W	R733-737	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R477	VRD-ST2CD474J	J	AA	470 kohms,1/6W	R738,739	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R478	VRD-RT2HD331J	J	AA	330 ohms,1/2W	R740,741	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R479	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R742	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R480	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W	R743-749	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R481-483	VRD-ST2CD563J	J	AA	56 kohms,1/6W	R750	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R484	VRD-RT2HD100J	J	AA	10 ohm,1/2W	R751-755	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R486	VRD-RT2HD331J	J	AA	330 ohms,1/2W	R756-760	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R500	VRS-CY1JB225J	J	AA	2.2 Mohms,1/16W	R761	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R501-504	VRS-CY1JB102J	J	AA	1 kohm,1/16W	R762	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R505	VRS-CY1JB101J	J	AA	100 ohm,1/16W	R763	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R506	VRS-CY1JB102J	J	AA	1 kohm,1/16W	R764	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R508	VRS-CY1JB102J	J	AA	1 kohm,1/16W	R765	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R509,510	VRS-CY1JB102F	J	AA	1 kohm,1/16W	R766	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R511	VRS-CY1JB103J	J	AA	10 kohm,1/16W	R767-769	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R512	VRS-CY1JB153J	J	AA	15 kohms,1/16W	R770-772	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R513	VRS-CY1JB101J	J	AA	100 ohm,1/16W	R773	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R514	VRS-CY1JB103J	J	AA	10 kohm,1/16W	R774	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R515	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W	R775	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R516	VRS-CY1JB183J	J	AA	18 kohms,1/16W	R777,778	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R519	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W	R780-782	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R521	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R783	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R530	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R784	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R531	VRS-CY1JB102J	J	AA	1 kohm,1/16W	R785-791	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R532	VRS-CY1JB103J	J	AA	10 kohm,1/16W	R792,793	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R535,536	VRS-CY1JB104J	J	AA	100 kohm,1/16W	R798	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R537,538	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W	R799	VRS-CY1JB473J	J	AA	47 kohms,1/16W
R540-542	VRS-CY1JB103J	J	AA	10 kohm,1/16W	R812	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R543-548	VRS-CY1JB221J	J	AA	220 ohms,1/16W	R813	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R549-554	VRS-CY1JB273J	J	AA	27 kohms,1/16W	R814	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R556-559	VRS-CY1JB471J	J	AA	470 ohms,1/16W	R815	VRD-ST2CD100J	J	AA	10 ohm,1/6W
R573,574	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W	R816	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R577,578	VRS-CY1JB391J	J	AA	390 ohms,1/16W	R817	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R601-603	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R818,819	VRD-ST2EE470J	J	AA	47 ohms,1/4W
R604	VRD-ST2CD103J	J	AA	10 kohm,1/6W	R821,822	VRD-RT2HD560J	J	AA	56 ohms,1/2W
R605,606	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W	R850	VRD-RT2HD3R3J	J	AA	3.3 ohms,1/2W
R625,626	VRS-CY1JB472J	J	AA	4.7 kohms,1/16W	R852	VRD-RT2HD561J	J	AA	560 ohms,1/2W
R627,628	VRD-ST2CD393J	J	AA	39 kohms,1/6W	R853,854	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R631,632	VRS-CY1JB103J	J	AA	10 kohm,1/16W	R855	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R633,634	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R856-858	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R635-640	VRS-CY1JB103J	J	AA	10 kohm,1/16W	R860,861	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R641	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R862	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R642,643	VRS-CY1JB102J	J	AA	1 kohm,1/16W	R882	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R644	VRD-ST2CD100J	J	AA	10 ohm,1/6W	R883	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R645,646	VRS-CY1JB274J	J	AA	270 kohms,1/16W	R890	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R649-654	VRS-CY1JB102J	J	AA	1 kohm,1/16W	R891,892	VRS-CY1JB222J	J	AA	2.2 kohms,1/16W
R655,656	VRS-CY1JB104J	J	AA	100 kohm,1/16W	R893,894	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R657,658	VRS-CY1JB153J	J	AA	15 kohms,1/16W	R895	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R659,660	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W	R896	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R661,662	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W	R901-904	VRD-ST2CD183J	J	AA	18 kohms,1/6W
R663,664	VRS-CY1JB104J	J	AA	100 kohm,1/16W	R905,906	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R665-668	VRS-CY1JB103J	J	AA	10 kohm,1/16W	R907,908	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R671-674	VRS-CY1JB102J	J	AA	1 kohm,1/16W	R909,910	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R675,676	VRS-CY1JB104J	J	AA	100 kohm,1/16W	R911,912	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R677	VRS-CY1JB182J	J	AA	1.8 kohms,1/16W	R913	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R678	VRS-CY1JB153J	J	AA	15 kohms,1/16W	R916	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R679	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W	R917-920	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R680	VRS-CY1JB122J	J	AA	1.2 kohms,1/16W	R921,922	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R681	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W	R927,928	VRD-ST2CD822J	J	AA	8.2 kohms,1/6W
R682	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W	R933-936	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R683	VRS-CY1JB104J	J	AA	100 kohm,1/16W	R937,938	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R684	VRS-CY1JB104J	J	AA	100 kohm,1/16W	R939	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R685-688	VRS-CY1JB102J	J	AA	1 kohm,1/16W	R940	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R689,690	VRS-CY1JB104J	J	AA	100 kohm,1/16W	R941,942	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R691,692	VRS-CY1JB153J	J	AA	15 kohms,1/16W	R943	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R693,694	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W	R944	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R695,696	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W	R945	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R697,698	VRS-CY1JB104J	J	AA	100 kohm,1/16W	R946,947	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R701	VRS-CY1JB102J	J	AA	1 kohm,1/16W	R948,949	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R702,703	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R950	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R704-707	VRS-CY1JB102J	J	AA	1 kohm,1/16W	R951,952	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R708-710	VRD-ST2CD102J	J	AA	1 kohm,1/6W	R961,962	VRS-VV3AAR10J	J	AB	0.1 ohm,1W
R711-713	VRS-CY1JB102J	J	AA	1 kohm,1/16W	R963,964	VRD-ST2CD103J	J	AA	10 kohm,1/6W

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
R965,966	VRS-VV3AAR10J	J AB	0.1 ohm,1W	RD67	VRD-ST2CD123J	J AA	12 kohms,1/6W
R967,968	VRD-ST2CD103J	J AA	10 kohm,1/6W	RD68	VRS-CY1JB224J	J AA	220 kohms,1/16W
R969~972	VRD-ST2CD102J	J AA	1 kohm,1/6W	RD69	VRS-CY1JB154J	J AA	150 kohms,1/16W
R973~976	VRD-ST2CD563J	J AA	56 kohms,1/6W	RD70	VRS-CY1JB394J	J AA	390 kohms,1/16W
R977~980	VRD-ST2EE4R7J	J AA	4.7 ohms,1/4W	RD71	VRS-CY1JB184J	J AA	180 kohms,1/16W
R987,988	VRD-RT2HD331J	J AA	330 ohms,1/2W	RD72	VRD-ST2CD104J	J AA	100 kohm,1/6W
R989~991	VRD-ST2CD472J	J AA	4.7 kohms,1/6W	RD80~85	VRD-ST2CD104J	J AA	100 kohm,1/6W [To be Used Up to Production Number 10505000]
R994	VRD-ST2CD472J	J AA	4.7 kohms,1/6W	RD86,87	VRS-CY1JB332J	J AA	3.3 kohms,1/16W
R997,998	VRD-ST2CD223J	J AA	22 kohms,1/6W	RD88	VRS-CY1JB103J	J AA	10 kohm,1/16W
R1000	VRD-ST2EE331J	J AA	330 ohms,1/4W	RD89	VRD-ST2CD103J	J AA	10 kohm,1/6W
R1001	VRD-ST2CD101J	J AA	100 ohm,1/6W	RD90,91	VRS-CY1JB332J	J AA	3.3 kohms,1/16W
R1002	VRD-ST2CD122J	J AA	1.2 kohms,1/6W	RD92,93	VRS-CY1JB103J	J AA	10 kohm,1/16W
R1003	VRD-ST2EE391J	J AA	390 ohms,1/4W	RD94	VRD-ST2CD103J	J AA	10 kohm,1/6W
R1004	VRD-ST2CD563J	J AA	56 kohms,1/6W				
R1005	VRD-ST2CD102J	J AA	1 kohm,1/6W				
R1006	VRD-ST2CD101J	J AA	100 ohm,1/6W				
R1007,1008	VRD-ST2CD102J	J AA	1 kohm,1/6W				
R1009,1010	VRD-ST2CD103J	J AA	10 kohm,1/6W				
R1011	VRD-ST2CD222J	J AA	2.2 kohms,1/6W				
R1012	VRD-ST2CD102J	J AA	1 kohm,1/6W				
R1013,1014	VRD-ST2CD223J	J AA	22 kohms,1/6W				
△ R1015~1018	VRG-ST2EC101J	J AB	100 ohm,1/4W,Fusible				
R1019,1020	VRD-ST2CD102J	J AA	1 kohm,1/6W				
R1021	VRD-ST2CD473J	J AA	47 kohms,1/6W				
R1022,1023	VRD-ST2CD223J	J AA	22 kohms,1/6W				
R1024	VRD-ST2CD563J	J AA	56 kohms,1/6W				
R1025	VRD-ST2CD473J	J AA	47 kohms,1/6W				
R1031	VRD-ST2EE101J	J AA	100 ohm,1/4W				
R1032	VRD-ST2CD221J	J AA	220 ohms,1/6W				
R1034	VRD-ST2CD103J	J AA	10 kohm,1/6W				
R1039,1040	VRD-ST2CD223J	J AA	22 kohms,1/6W				
R1041~1044	VRD-ST2CD104J	J AA	100 kohm,1/6W				
R1045	VRD-ST2EE152J	J AA	1.5 kohms,1/4W				
R1046~1049	VRD-ST2CD563J	J AA	56 kohms,1/6W				
R1050~1054	VRD-ST2CD224J	J AA	220 kohms,1/6W				
R1055	VRD-ST2CD103J	J AA	10 kohm,1/6W				
R1056	VRD-ST2CD562J	J AA	5.6 kohms,1/6W				
RD01	VRD-ST2CD681J	J AA	680 ohms,1/6W				
RD02	VRD-ST2CD821J	J AA	820 ohms,1/6W				
RD03	VRD-ST2CD102J	J AA	1 kohm,1/6W				
RD04	VRS-CY1JB152J	J AA	1.5 kohms,1/16W				
RD05	VRD-ST2CD222J	J AA	2.2 kohms,1/6W				
RD06	VRD-ST2CD272J	J AA	2.7 kohms,1/6W				
RD07	VRD-ST2CD392J	J AA	3.9 kohms,1/6W				
RD08	VRS-CY1JB562J	J AA	5.6 kohms,1/16W				
RD09	VRS-CY1JB103J	J AA	10 kohm,1/16W				
RD10	VRD-ST2CD183J	J AA	18 kohms,1/6W				
RD11	VRS-CY1JB333J	J AA	33 kohms,1/16W				
RD13	VRD-ST2CD681J	J AA	680 ohms,1/6W				
RD14	VRD-ST2CD821J	J AA	820 ohms,1/6W				
RD20	VRS-CY1JB681J	J AA	680 ohms,1/16W				
RD21	VRD-ST2CD821J	J AA	820 ohms,1/6W				
RD22	VRD-ST2CD102J	J AA	1 kohm,1/6W				
RD23	VRD-ST2CD152J	J AA	1.5 kohms,1/6W				
RD24	VRD-ST2CD222J	J AA	2.2 kohms,1/6W				
RD25	VRD-ST2CD272J	J AA	2.7 kohms,1/6W				
RD26	VRD-ST2CD392J	J AA	3.9 kohms,1/6W				
RD27	VRS-CY1JB562J	J AA	5.6 kohms,1/16W				
RD28	VRD-ST2CD103J	J AA	10 kohm,1/6W				
RD29	VRD-ST2CD153J	J AA	15 kohms,1/6W				
RD30	VRD-ST2CD333J	J AA	33 kohms,1/6W				
RD31	VRD-ST2CD104J	J AA	100 kohm,1/6W				
RD32	VRD-ST2CD102J	J AA	1 kohm,1/6W				
RD34	VRD-ST2CD102J	J AA	1 kohm,1/6W				
RD35	VRS-CY1JB102J	J AA	1 kohm,1/16W				
RD36~38	VRD-ST2CD102J	J AA	1 kohm,1/6W				
RD41~43	VRD-ST2CD102J	J AA	1 kohm,1/6W				
RD51	VRD-ST2EE101J	J AA	100 ohm,1/4W				
RD52	VRD-ST2EE331J	J AA	330 ohms,1/4W				
RD53	VRS-CY1JB333J	J AA	33 kohms,1/16W				
RD54	VRD-ST2CD223J	J AA	22 kohms,1/6W				
RD55	VRD-ST2CD474J	J AA	470 kohms,1/6W				
RD56	VRD-ST2CD333J	J AA	33 kohms,1/6W				
RD57	VRD-ST2CD224J	J AA	220 kohms,1/6W				
RD58	VRD-ST2CD225J	J AA	2.2 Mohms,1/6W				
RD59	VRS-CY1JB824J	J AA	820 kohms,1/16W				
RD60	VRD-ST2CD105J	J AA	1 Mohm,1/6W				
RD61	VRD-ST2CD104J	J AA	100 kohm,1/6W				
RD62	VRS-CY1JB104J	J AA	100 kohm,1/16W				
RD63	VRS-CY1JB123J	J AA	12 kohms,1/16W				
RD64	VRS-CY1JB683J	J AA	68 kohms,1/16W				
RD65	VRD-ST2CD153J	J AA	15 kohms,1/6W				
				BI4/CNS4	QCNCWN1572AWZZ	J AF	Connector Ass'y,6/6Pin
				BI7/CNS7	QCNCWN2005AWZZ	J AG	Connector Ass'y,2/2Pin
				BI403/CNS403	QCNCWN2001AWZZ	J AE	Connector Ass'y,4Pin
				BI406/CNS406	QCNCWN2000AWZZ	J AF	Connector,6Pin
				BI407/CNS407	QCNCWN1999AWZZ	J AF	Connector Ass'y,6/6Pin
				BI501A/501B	QCNCWN2063AWZZ	J	Connector Ass'y,2/2Pin
				BI606/CNS606	QCNCWN2004AWZZ	J AE	Connector Ass'y,3/3Pin
				BI703/CNS703	QCNCWN1843AWZZ	J AH	Connector Ass'y,9/9Pin
				BI801/CNS801	QCNCWN1998AWZZ	J AH	Connector Ass'y,8/8Pin
				BI802/CNS802	QCNCWN1996AWZZ	J AF	Connector Ass'y,5/5Pin
				BI850/CNS850	QCNCWN1997AWZZ	J AK	Connector Ass'y,12/12Pin
				CNP1	QCNCM704GAWZZ	J AC	Plug,7Pin
				CNP2	QCNCM704HAWZZ	J AC	Plug,8Pin
				CNP3	92LCONE6P53253	J AC	Plug,6Pin
				CNP4	QCNCM705FAFZZ	J AB	Plug,6Pin
				CNP5	92LCONE3P53253	J AB	Plug,3Pin
				CNP7	QCNCM704CAWZZ	J AC	Plug,3Pin
				CNP8	92LCONE9P53254	J AD	Plug,9Pin
				CNP101	QCNCM705CAFZZ	J AA	Plug,3Pin
				CNP102	QCNCM705GAFZZ	J AB	Plug,7Pin
				CNP301	92LCONE3P5268	J AC	Plug,3Pin
				CNP401,402	92LCONE2P53254	J AB	Plug,2Pin
				CNP501	92LCONPB2BPHK	J AB	Plug,2Pin
				CNP502	QCNCWZG15AWZZ	J AD	Socket,15Pin
				CNP503	QCNCWZG12AWZZ	J AC	Socket,12Pin
				CNP601	QCNCWZG36AWZZ	J AF	Socket,36Pin
				CNP602	QCNCWZG15AWZZ	J AD	Socket,15Pin
				CNP603	92LCONE6P53253	J AC	Plug,6Pin
				CNP607	QCNCWZG12AWZZ	J AC	Socket,12Pin
				CNP701	QCNCWZF36AWZZ	J AF	Socket,36Pin
				CNP702	QCNCWZY08AWZZ	J AC	Socket,8Pin
				CNP703	92LCONE4P52287	J AC	Socket,4Pin
				CNP704	QCNCW679GAFZZ	J AB	Plug,7Pin [To be Used Up to Production Number 10505000]
				CNP801	92LCONE8P5267	J	Plug,8Pin
				CNP802	92LCONE5P53253	J AB	Plug,5Pin
				CNP807	92LCONECP5267	J	Plug,12Pin
				CNP901	QCNCM010UAWZZ	J AD	Plug,19Pin
				CNP902	92LCONPB6BPHK	J AB	Plug,6Pin
				CNP904	92LCONE4P5267X	J AB	Plug,4Pin
				CNS1A/B	QCNCWN1537AWZZ	J AG	Connector Ass'y,7/7Pin
				CNS2A/B	QCNCWN1538AWZZ	J AG	Connector Ass'y,8/8Pin
				CNS3A/B	QCNCWN1539AWZZ	J AE	Connector Ass'y,6/6Pin
				CNS401	QCNCWN2014AWZZ	J AC	Connector,2Pin
				CNS402	QCNCWN2050AWZZ	J AD	Connector,2Pin
				CNS604	QCNCW010UAWZZ	J AD	Plug,19Pin
				△ F801	QFS-D632DAWNI	J AC	Fuse,6.3A,125V
				△ F802,803	QFS-D402DAWNI	J AC	Fuse,4A,125V
				△ F804,805	QFS-D632DAWNI	J AC	Fuse,6.3A,125V
				△ F806,807	QFS-D202DAWNI	J AC	Fuse,2A,125V
				FE301	RTUNS0014AWZZ	J AR	FM Front End
				FFC602	QCNCWN2007AWZZ	J AG	Flat Cable,15Pin
				FFC607	QCNCWN2006AWZZ	J AF	Flat Cable,12Pin
				FFC701	QCNCWN2003AWZZ	J AK	Flat Cable,36Pin
				FFC702	QCNCWN1838AWZZ	J AD	Flat Cable,8Pin
				FL701	VVKBJ844GNK-1	J	FL Display
				FW901	QCNCWN2018AWZZ	J AD	Flat Wire,4Pin
				JK601	QSOCJ0218AWZZ	J AF	Jack,Video/AUX Input
				JK701	QJAKM0010AWZZ	J AF	Jack,Headphones
				JOG701	QSW-Z0014AWZZ	J AF	Switch,Jog Type [Volume]
				LUG901	QLUGP0001AWZZ	J AC	Lug
				M1	92LMTR2790CASY	J BB	Motor with Chassis [Spindle]



## CD-DD4500

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION	NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]	201-14	JKNBZ0771AWSA	J	AG	Button,Center Operation
M3	92LTWMEN7E6Y	J	AR	Motor with Worm Pulley [T/T Up/Down Loading]	201-15	MLIFP0008AWZZ	J	AD	Damper
M401,402	RMOTV0027AWZZ	J	AM	Motor,Air Cooling Fan	201-16	JKNBZ0773AWSA	J	AG	Button,X-Bass/Equalizer
R21	RCORF0015AWZZ	J	AB	Core	201-17	92LBADGE1671A	J	AC	Badge,SHARP
RX701	VHLN63H380A-1	J	AK	Remote Sensor,N63H380A	201-18	GCOVA1339AWSA	J	AB	Cover,LED,Power
RY401,402	RRLYD0014AWZZ	J	AK	Relay	201-19	GCOVA1340AWSA	J	AB	Cover,LED,A
RY801	RRLYD0001SJZZ	J	AQ	Relay	201-20	GCOVA1341AWSA	J	AB	Cover,LED,B
RY901,902	RRLYD0014AWZZ	J	AK	Relay	201-21	LHLDZ1319AWZZ	J	AE	Holder,Button Block
SO901	QTANA0810AWZZ	J	AF	Terminal,Speaker	201-22	MLOKC0006AWZZ	J	AB	Lock Lever,Cassette [Tape 1]
SOC401	QSOCJ0306AWZZ	J	AF	Jack,Speaker	201-23	MLOKC0007AWZZ	J	AB	Lock Lever,Cassette [Tape 2]
SOC901	QSOCJ0104AWZZ	J	AD	Jack,Pre Out,Super Woofer	201-24	LHLDZ1328AWZZ	J	AC	Holder,Cassette Lock
SW1	SWMPU10780MLB	J	AH	Switch,Push Type [Open/Close]	201-25	MSPRD0092AWFJ	J	AB	Spring,Cassette [Tape 1]
SW2	SWMPU11470MLB	J	AE	Switch,Push Type [Clamp]	201-26	MSPRD0093AWFJ	J	AB	Spring,Cassette [Tape 2]
SW3	SWMPU11470MLB	J	AE	Switch,Push Type [Disc Number]	201-27	MSPRC0029AWFJ	J	AB	Spring,Cassette Lock
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]	201-28	JKNBZ0802AWSA	J	AD	Button,Dolby
SW701	92LSWICHT1663T	J	AC	Switch,Key Type [Power]	201-29	GCOVA1394AWSA	J	AD	Cover,Remote Control Sensor
SW702	92LSWICHT1663T	J	AC	Switch,Key Type [Clock]	202	92LCAB3552BASY	J	AM	Side Panel Ass'y,Left
SW703	92LSWICHT1663T	J	AC	Switch,Key Type [Timer Sleep]	202- 1	—	—	—	Side Panel,Left (Not Replacement Item)
SW704	92LSWICHT1663T	J	AC	Switch,Key Type [Bypass]	202- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
SW705	92LSWICHT1663T	J	AC	Switch,Key Type [Normal]	203	92LCAB3552CASY	J	AM	Side Panel Ass'y,Right
SW706	92LSWICHT1663T	J	AC	Switch,Key Type [Phantom]	203- 1	—	—	—	Side Panel,Right (Not Replacement Item)
SW707	92LSWICHT1663T	J	AC	Switch,Key Type [Virtual]	203- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
SW708	92LSWICHT1663T	J	AC	Switch,Key Type [Disc 1]	204	GCAB-1192AWSA	J	AN	Top Cabinet
SW709	92LSWICHT1663T	J	AC	Switch,Key Type [Disc 2]	205	LANGK0288AWFW	J		Bracket,Shield Support
SW710	92LSWICHT1663T	J	AC	Switch,Key Type [Disc 3]	206	GCOVA1338AWSA	J	AH	Cover,CD Tray
SW711	92LSWICHT1663T	J	AC	Switch,Key Type [Disc Skip]	207	GITAR0769AWSA	J	AN	Rear Panel [Except for Canada]
SW712	92LSWICHT1663T	J	AC	Switch,Key Type [Open/Close]	207	GITAR0770AWSA	J	AN	Rear Panel [For Canada]
SW714	92LSWICHT1663T	J	AC	Switch,Key Type [Dimmer]	208	PSLDM3087AWFW	J	AL	Shield
SW715	92LSWICHT1663T	J	AC	Switch,Key Type [X-Bass]	209	LANGK0275AWFW	J	AF	Bracket,Main Heat Sink [Left]
SW716	92LSWICHT1663T	J	AC	Switch,Key Type [Equalizer]	210	LANGK0276AWFW	J	AF	Bracket,Main Heat Sink [Right]
SW722	92LSWICHT1663T	J	AC	Switch,Key Type [CD]	211	LANGK0278AWFW	J	AE	Bracket,Fan Support A
SW723	92LSWICHT1663T	J	AC	Switch,Key Type [Tape]	212	LBSHC0005AWZZ	J	AD	Bushing,AC Power Supply Cord
SW724	92LSWICHT1663T	J	AC	Switch,Key Type [Tuning Down]	213	LCHSM0120AWFW	J	AQ	Chassis,Main
SW725	92LSWICHT1663T	J	AC	Switch,Key Type [Memory Set]	214	LHLDZ1318AWZZ	J	AE	Holder,FL Display
SW726	92LSWICHT1663T	J	AC	Switch,Key Type [Fast Rewind]	215	LANGK0277AWFW	J	AD	PWB Support
SW727	92LSWICHT1663T	J	AC	Switch,Key Type [Fast Forward]	216	JKNBK0084AWSA	J	AE	Knob,Volume
SW728	92LSWICHT1663T	J	AC	Switch,Key Type [Play]	218	NFANP0001AWZZ	J	AD	Rotary Fan
SW729	92LSWICHT1663T	J	AC	Switch,Key Type [Stop]	219	PCUSG0022AWZZ	J	AB	Cushion,Leg
SW731	92LSWICHT1663T	J	AC	Switch,Key Type [Rec/Pause]	220	PRDAR0203AWFW	J	AY	Heat Sink,Main
SW732	92LSWICHT1663T	J	AC	Switch,Key Type [Tuning Up]	221	PRDAR0204AWFW	J	AM	Heat Sink,Sub
SW733	92LSWICHT1663T	J	AC	Switch,Key Type [Video]	△ 222	QACCD0022AWZZ	J	AM	AC Power Supply Cord
SW734	92LSWICHT1663T	J	AC	Switch,Key Type [Tuner]	△ 223	QCNWN1844AWZZ	J	AC	Lug Wire
<b>CD MECHANISM PARTS</b>					△ 224	QFSDH0001AWZZ	J	AB	Holder,Fuse
301	NGERH0011AWZZ	J	AC	Gear,Middle	225	92LBE231616	J	AD	Belt
302	NGERH0012AWZZ	J	AC	Gear,Drive	226	92LCSPR1431C	J	AA	Spring,Ring
303	MLEVP0080AWZZ	J	AC	Rail,Guide	227	92LEVA0330702	J	AD	Velvet Carpet,Chassis
304	NSFTM0020AWFW	J	AD	Shaft,Guide	228	92LMAG0104302	J	AE	Magnet
305	92LM-CUSN1524A	J	AC	Cushion	229	92LMT0304302	J	AB	Plate,Metal
△ 306	92LHPC1LXASY	J	BD	Pickup Unit Ass'y	230	92LNBAND1318A	J	AA	Nylon Band,80mm
306- 1	—	—	—	Pickup Unit (Not Replacement Item)	231	92LNM0305401	J	AB	Velvet Carpet
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack	232	92LPT0303002	J	AB	Roller
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack	233	92LPT0304303	J	AB	Lever,Stop
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm	234	92LPT0304304	J	AB	Stopper
702	XHBSD20P05000	J	AA	Screw,ø2×5mm	235	92LPT0304305	J	AE	Lever,Lock
703	XHBSD20P03000	J	AA	Screw,ø2×3mm	236	92LPT0304306	J	AG	Stabilizer
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×3.8×0.25mm	237	92LPT0304307	J	AC	Support,Cam
M1	92LMTR2790CASY	J	BB	Motor with Chassis [Spindle]	238	92LPT0304308	J	AB	Lock Gear Pin
M2	92LMTR1854BASY	J	AP	Motor with Gear [Sled]	239	92LPT0304309	J	AB	Cap,Pulley Stopper
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]	240	92LPT0305413	J	AG	Cam Gear Lower
<b>CABINET PARTS</b>					241	92LPT0309506	J	AD	Gear,Turntable Drive
201	92LCAB3723AASY	J		Front Cabinet Ass'y	242	92LPT0309507	J	AD	Gear,Open/Close Drive
201- 1	—	—	—	Front Panel (Not Replacement Item)	243	92LPT0309508	J	AD	Gear,Planet
201- 2	GDORF0097AWSA	J	AE	Holder,Cassette [Tape 1]	244	92LPT0309509	J	AD	Gear,Drive
201- 3	GDORF0098AWSA	J	AE	Holder,Cassette [Tape 2]	245	92LPT0309510	J	AE	Gear,Pulley
201- 4	GCOVA1352AWSA	J	AH	Cover,Cassette [Tape 1]	246	92LPT0309511	J	AD	Gear,Middle
201- 5	GCOVA1353AWSA	J	AH	Cover,Cassette [Tape 2]	247	92LPT0311101	J	AB	Lever,Clamp
201- 6	HDECQ0670AWSA	J	AE	Panel,Cassette [Tape 1]	248	92LPT0311102	J	AC	Lever,Disc
201- 7	HDECQ0671AWSA	J	AE	Panel,Cassette [Tape 2]	249	92LPT0312005	J	AL	Gear,Cam
201- 8	HDECQ0756AWSA	J	AH	Panel,Amp.	250	92LPT0320201	J	AE	Support,Stabilizer
201- 9	JKNBZ0765AWSA	J	AE	Button,Power	251	92LPT0330301	J	AU	Chassis,Loading
201-10	JKNBZ0766AWSA	J	AG	Button,Dimmer/Tuning	252	92LPT0330803	J	AK	CD,Chassis
201-11	JKNBZ0839AWSA	J	AF	Button,Function	253	92LPT0331003	J	AT	Shassis,Slide
201-12	HDECQ0674AWSA	J	AE	Volume Ring	254	92LPT0331105	J	AM	Turntable
201-13	JKNBZ0770AWSA	J	AF	Button,Disc Control	255	92LSP0304303	J	AB	Spring,Stopper
					256	92LSP0304305	J	AB	Spring,Lock
					257	92LSP0304306	J	AB	Spring,Lock Gear
					258	KMECB0018AWZZ	J	BE	Tape Mechanism Ass'y
					258- 1	92PF513-853	J	BL	Head Plate Block [Tape 2]
					258- 2	92PF525-336	J		Motor with Pulley [Tape]
					258- 3	92PF567-677	J		Tape Mechanism PWB Ass'y

NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
258-4	92PFF19N-21	J	Belt,Main [Tape 2]
258-5	92PF514-133	J	AL Pinch Roller
258-6	92PF19S-31	J	AL Belt,FF/REW [Tape 2]
258-7	92PFF19N-11	J	AL Belt,Main [Tape 1]
258-8	92PF522-061	J	AZ Clutch Ass'y Block [Tape 1]
258-9	92PFF19S-52	J	AL Belt,FF/REW [Tape 1]
258-10	92PF513-861	J	AG Head Plate Block [Tape 1]
258-11	92PF522-063	J	AZ Clutch Ass'y Block [Tape 2]
258-12	92PFD60F-11	J	Cam Gear [Tape 1]
258-13	92PFR26C-11	J	Flywheel [Tape 1]
258-14	92PFR26D-11	J	Flywheel [Tape 2]
258-15	92PF765-292	J	Solenoid Ass'y
258-16	92PFD58M-14	J	Cam Gear [Tape 2]
264	LANGK0374AWFW	J	Bracket,Fam Support B
601	XWHSD32-10130	J	AA Washer,ø3.2×ø13×1.0mm
602	LX-BZ0880AFZZ	J	AC Screw,ø2×2.2mm
603	LX-JZ0010AFFD	J	AA Screw,ø3×10mm
604	LX-LZ0006AWZZ	J	AC Push Rivet
605	XBBSD20P04000	J	AA Screw,ø2×4mm
606	XEBSD30P10000	J	AA Screw,ø3×10mm
607	XEBSF30P12000	J	AA Screw,ø3×12mm
608	XESSD30P10000	J	AA Screw,ø3×10mm
609	XHBSD30P06000	J	AA Screw,ø3×6mm
610	XJBSD30P10000	J	AA Screw,ø3×10mm
611	XJBSD30P14000	J	AA Screw,ø3×14mm
612	XJBSE30P10000	J	AA Screw,ø3×10mm
613	XJSSD30P10000	J	AA Screw,ø3×10mm
614	92LSC0308MBZI	J	AB Screw,ø3×8mm
615	92LSC0308RBZI	J	AB Screw,ø3×8mm
616	XHBSD40P08000	J	AA Screw,ø4×8mm
617	LX-LZ0014AWZZ	J	AC PWB Spacer

### PACKING PARTS (Except for U.S.A.)

SPAKA0325AWZZ	J	Packing Add.
SPAKC1264AWZZ	J	Packing Case
		[Except for Canada]
SPAKC1265AWZZ	J	Packing Case [For Canada]
SPAKP0032AWZZ	J	AF Polyethylene Bag,Unit
SPAKZ0817AWZZ	J	Ethaform
SPAKZ0818AWZZ	J	Packing Add.
SSAKA0007AWZZ	J	AB Polyethylene Bag,Accessories

### ACCESSORIES

QANTL0007AWZZ	J	AK AM/FM Loop Antenna
TCAUS0042AWZZ	J	AB Energy Star Caution
TINSE0378AWZZ	J	AF Operation Manual
		[Except for Canada]
TINSK0117AWZZ	J	AG Operation Manual [For Canada]
TINSZ0700AWZZ	J	AC Quick Guide [For U.S.A.]
TLABR1215AWZZ	J	AB Label,Bar Code
TLABZ0593AWZZ	J	AB Label,Energy Star
TLABZ0941AWZZ	J	AC Label,Feature [Tape 1]
TLABZ0942AWZZ	J	AC Label,Feature [Tape 2]
RRMCG0296AWSA	J	AV Remote Control
GFTAB1030AWSA	J	Battery Lid,Remote Control

### P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A	92LPWB3723MANS	J	—	Main
PWB-B1,2	92LPWB3723DPLS	J	—	Display/Headphones
				(Combined Ass'y)
PWB-C	92LPWB3723CDUS	J	—	CD Servo
△ PWB-D1~4	92LPWB3723PWRS	J	—	Power/Amp.A/Transformer/
				Support (Combined Ass'y)
PWB-E	92LPC99C017	J	AE	CD Loading Motor (PWB Only)
PWB-F	92PF567-649	J	—	Tape Mechanism
PWB-G	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
PWB-H	92LPWB3723ACTS	J	—	Dolby
PWB-J	92LPWB3723AMPS	J	—	Amp.B

### OTHER SERVICE PART

UDSKA0004AFZZ	J	AZ	CD Pickup Lens Cleaner
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NO.	PARTS CODE	★ PRICE RANK	DESCRIPTION
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### CP-DD4500

### SPEAKER BOX PARTS

901	CPNLS1032AW01	J	Front Panel Ass'y,Right
901	CPNLS1033AW01	J	Front Panel Ass'y,Left
902	GBOXS2006AWSA	J	Speaker Box Ass'y
903	PCUSG0022AWZZ	J	AB Foot Cushion
904	PFLT-0049AWZZ	J	AC Felt
905	QCNWN2023AWZZ	J	Woofer Cord
906	QCNWN2024AWZZ	J	Subwoofer Cord
907	QCNWN2040AWZZ	J	Tweeter Cord Ass'y,with
			Capacitor C1,2
908	XESSD30P10000	J	AA Screw,ø3×10mm
909	TSPC-0896AWZZ	J	Label,Specifications
910	XEBSD40P16000	J	Screw,ø4×16mm
SP1,2	RSPA00029AW8T	J	Tweeter
SP3,4	RSPA00028AW8W	J	Woofer
SP5,6	RSPA10028AW6W	J	Subwoofer

### PACKING PARTS

SPAKA0314AWZZ	J	Packing Add.
SSAKH0053AWZZ	J	Polyethylene Bag,Speaker

### GBOXS0064AWM1

### CENTER SPEAKER BOX PARTS

901	CWAKP1054AWM1	J	Net Frame Ass'y
902	GCAB-1203AWSA	J	Bottom Cabinet
903	QCNWN2041AWZZ	J	Speaker Cord
904	PCUSG0088AWZZ	J	Foot Cushion
905	XEBSD30P14000	J	AA Screw,ø3×14mm
906	TLABM0125AWZZ	J	Label,Parts Code
SP1	RSPA10039AW6S	J	Speaker

### GBOXS2008AWM1/GBOXS4008AWM1

### SURROUND SPEAKER BOX PARTS

901	CWAKP1055AWM1	J	Net Frame Ass'y
902	GCAB-1024AWSA	J	Bottom Cabinet
903	QCNWN2042AWZZ	J	Speaker Cord [Left]
903	QCNWN2043AWZZ	J	Speaker Cord [Right]
904	XEBSD30P14000	J	AA Screw,ø3×14mm
905	TLABM0126AWZZ	J	Label,Parts Cord [Left]
905	TLABM0127AWZZ	J	Label,Parts Cord [Right]
SP1,2	RSPA00024AW8P	J	Speaker

### PACKING PARTS

SPAKA0315AWZZ	J	Packing Add.
SSAKH0066AWZZ	J	Polyethylene Bag,Center
		Speaker
SSAKH0067AWZZ	J	Polyethylene Bag,Surround
		Speaker

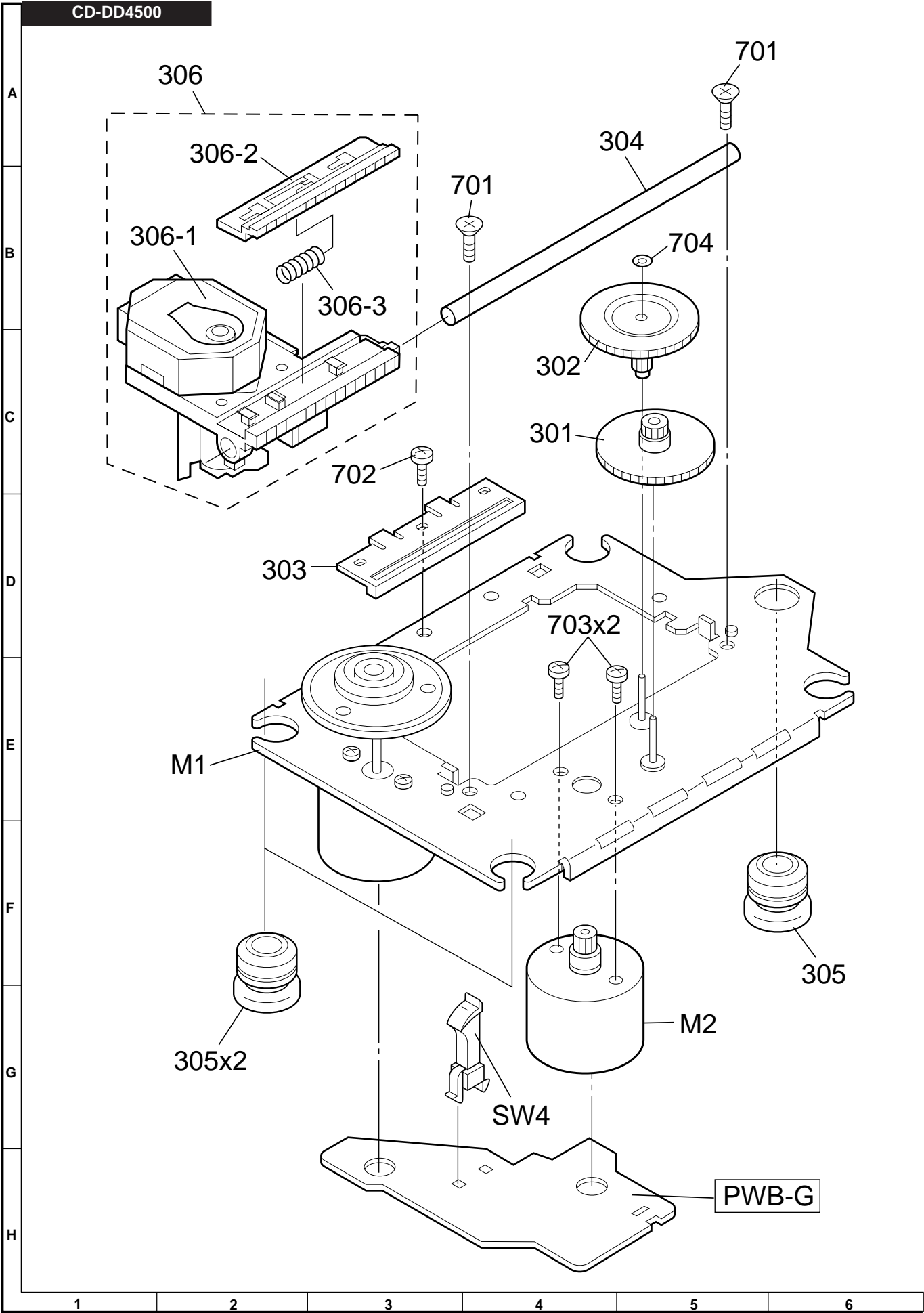
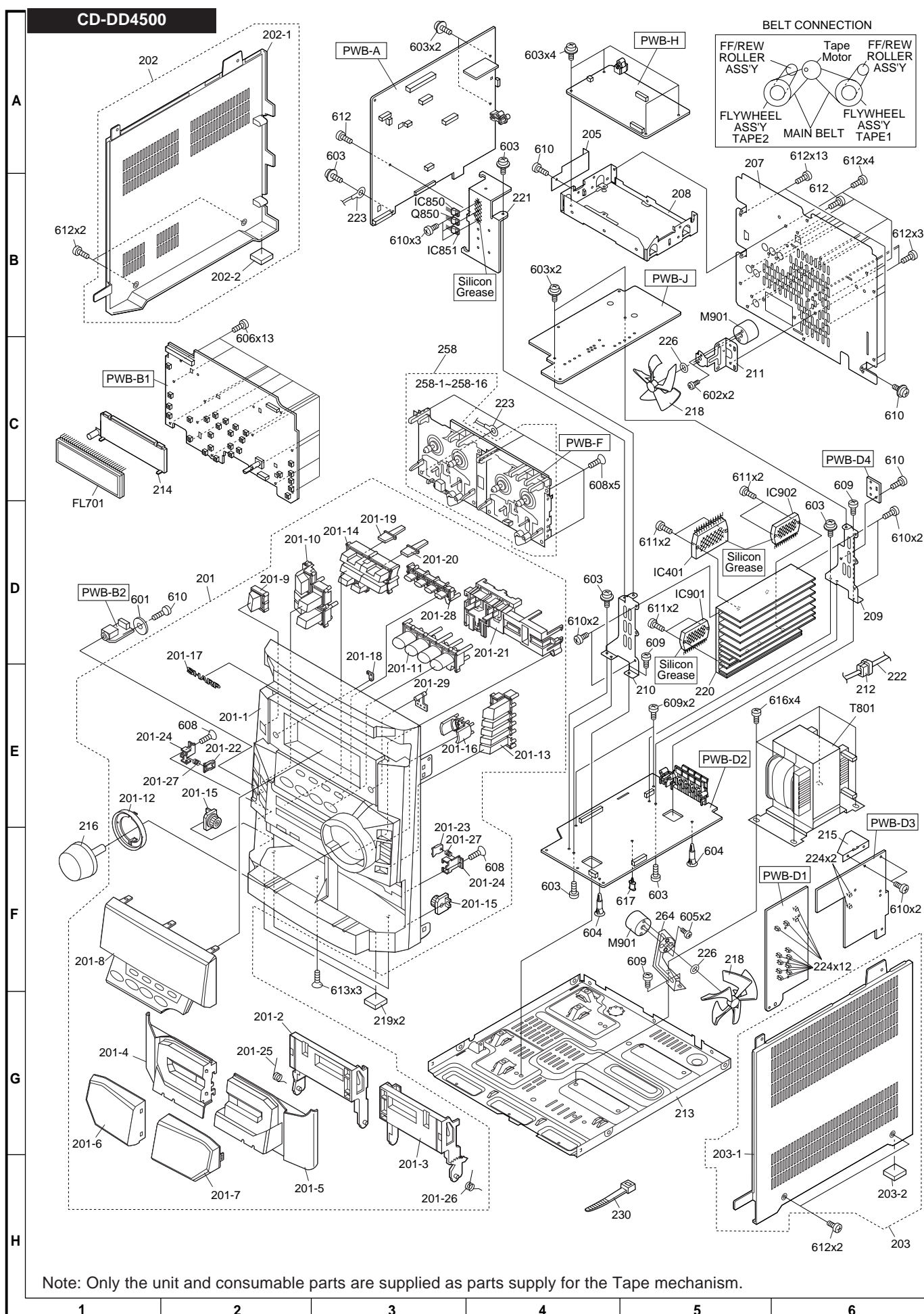


Figure 9 CD MECHANISM EXPLODED VIEW





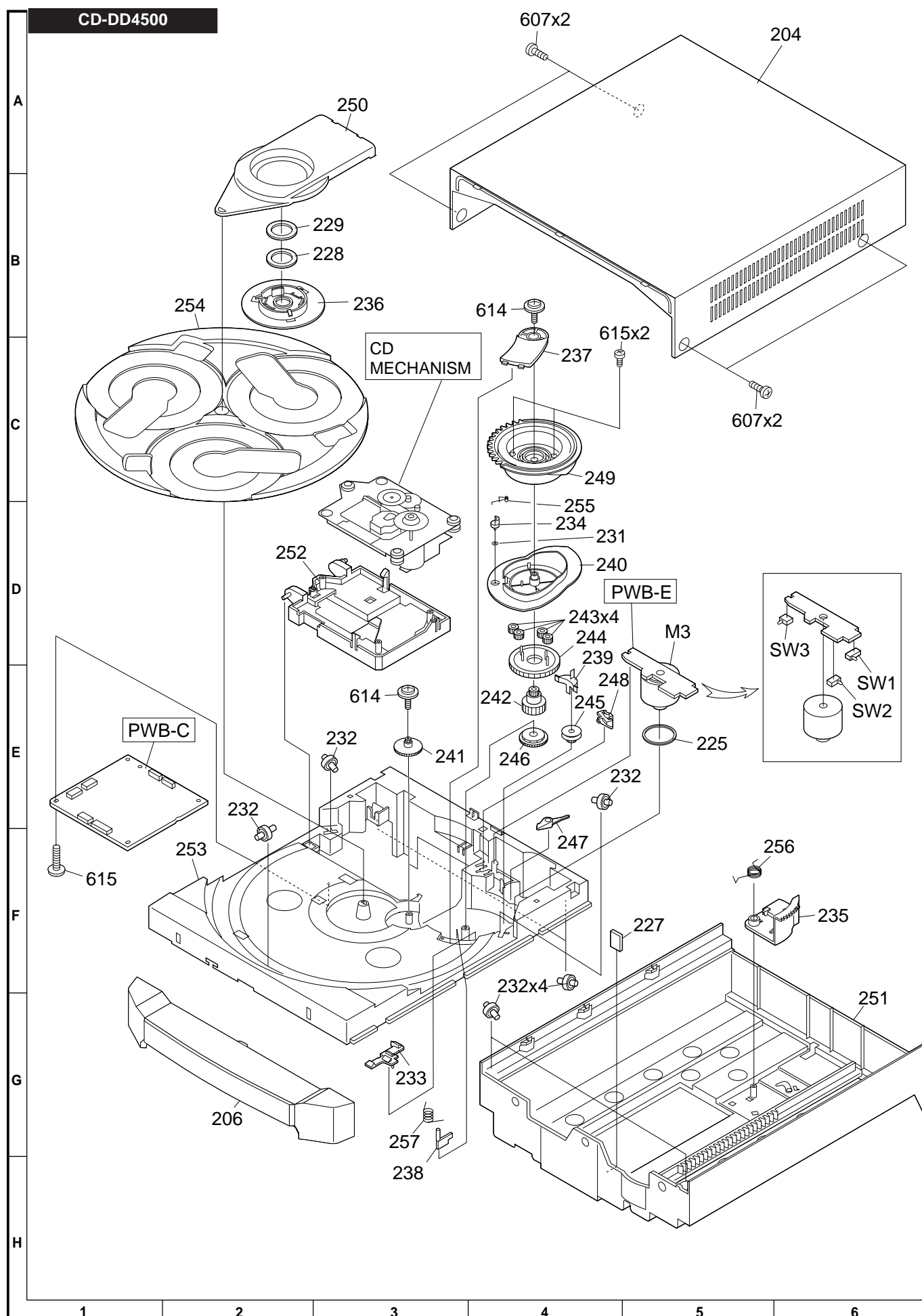


Figure 11 CABINET EXPLODED VIEW (2/2)

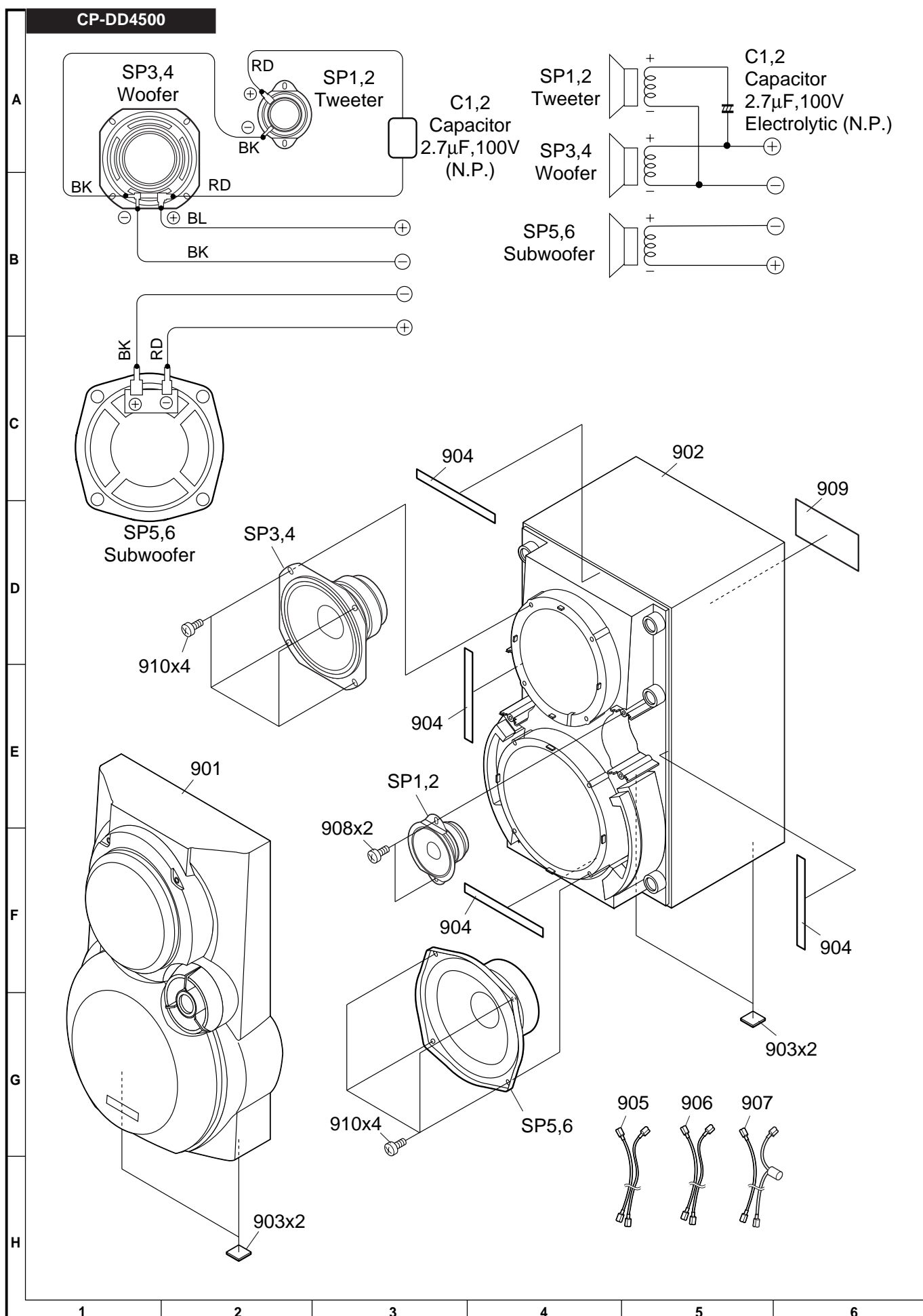


Figure 12 SPEAKER EXPLODED VIEW (1/3)

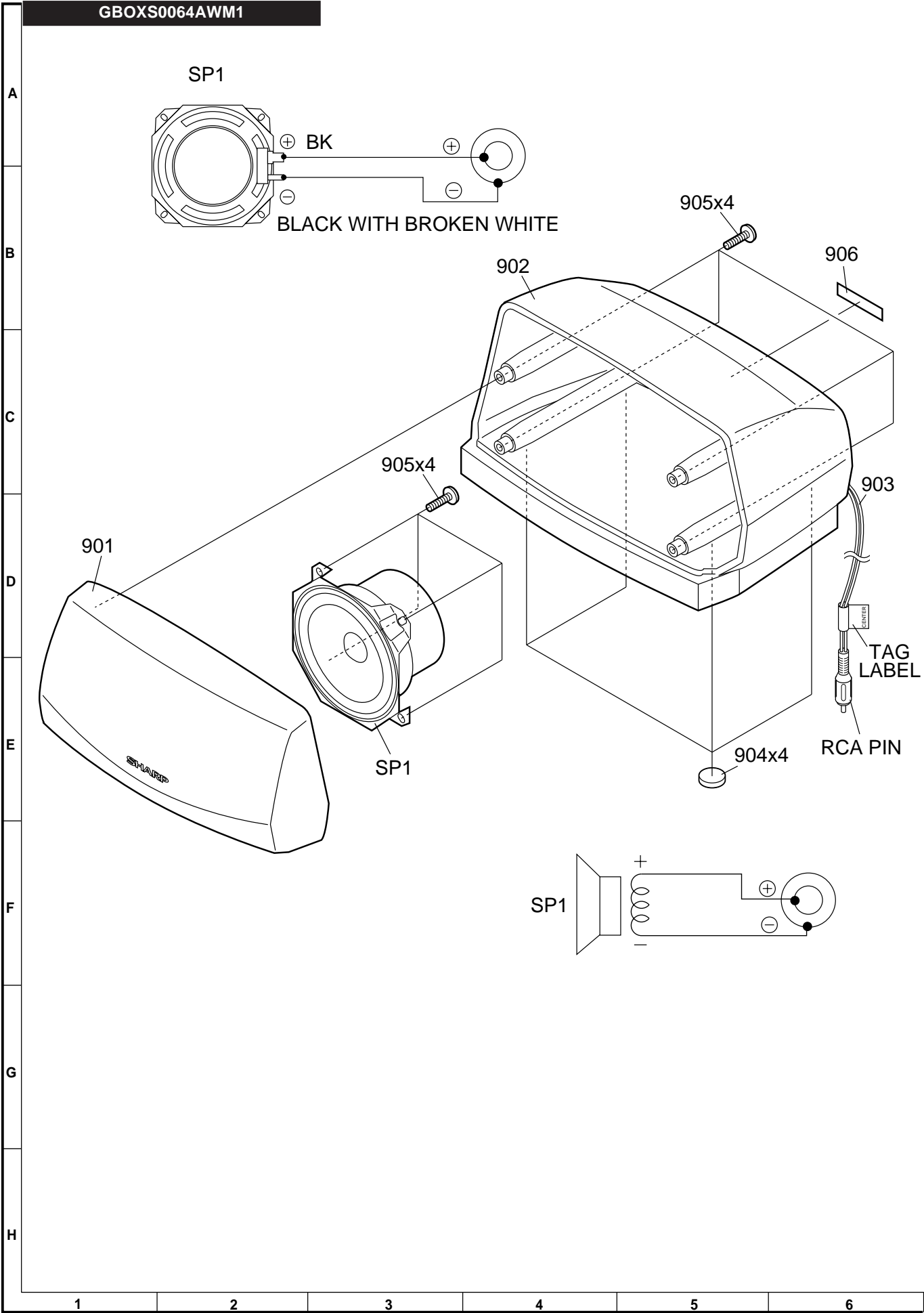


Figure 13 SPEAKER EXPLODED VIEW (2/3)

GBOXS2008AWM1/GBOXS4008AWM1

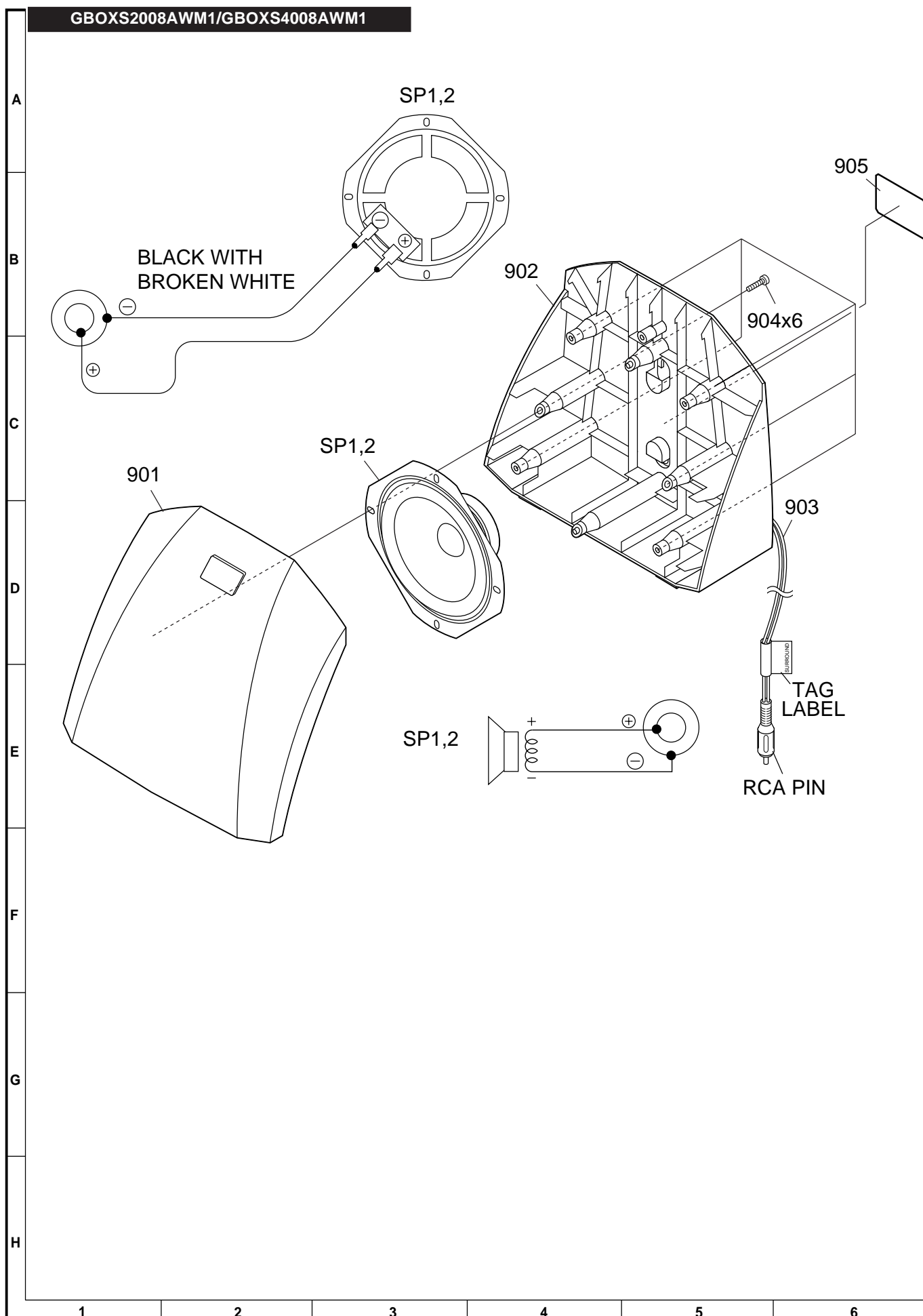


Figure 14 SPEAKER EXPLODED VIEW (3/3)

PACKING OF THE SET (FOR U.S.A. ONLY)

Setting position of switches and knobs	
Tape Mechanism	STOP

UNIT

★ SPAKP0032AWZZ  
Polyethylene bag

★ SPAKA0325AWZZ  
Packing Add.,(Left/Right)

★ SPAKA0315AWZZ  
Packing Add.(Top/Bottom)

IDEAL TAPE

REAR TOP FRONT Bottom

1

Front Speaker (L/R)

CP-DD4500

★ SSAKH0053AWZZ  
Polyethylene Bag

★ SPAKA0314AWZZ  
Packing Add.,  
(Top/Bottom)

FRONT-SP(L) TOP REAR SIDE FRONT-SP(R) TOP

2

Surround Speaker (L/R)	Center Speaker
GBOXS4008AWM1/GBOXS2008AWM1	GBOXS0064AWM1

★ SSAKH0066AWZZ  
Polyethylene Bag

★ SSAKH0067AWZZ  
Polyethylene Bag

PACK TOGETHER SURROUND-SP

CENTER-SP

★ SSAKA0315AWZZ  
Packing Add.(Top/Bottom)

3

★ SSAKA0007AWZZ  
Polyethylene Bag,Accessories

AM/FM Loop Antenna  
Operation Manual  
Quick Guide  
Remote Control

FRONT SIDE OF CENTER IN REAR SPEAKER

FRONT OF SET

FRONT SIDE

★ SPAKC1264AWZZ  
Packing Case

★Not Replacement Item

— MEMO —

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**SHARP CORPORATION**  
**AV Systems Group**  
**Audio Systems Division**  
**Higashihiroshima, Hiroshima 739-0192, Japan**  
**Printed in Japan**

**A0107-2063DS•HA•M**

**SC • SL • LAG**